

<b>SOLICITATION, OFFER, AND AWARD</b> <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. W9124R-05-R-0022	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 01-Aug-2005	PAGE OF PAGES 1 OF 71
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**IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.**

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO.	6. PROJECT NO.
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7. ISSUED BY <div style="display: flex; justify-content: space-between;"> <span>CODE</span> <span>W9124R</span> </div> ARMY CONTRACTING AGENCY - SR - YUMA SFCA-SR-YM, B-2100, R-8 301 C STREET YUMA AZ 85365-9498  TEL: 928-328-6163      FAX: 928-328-6849	8. ADDRESS OFFER TO <i>(If Other Than Item 7)</i> CODE <div style="text-align: center; padding: 20px;"> <b>See Item 7</b> </div> TEL:      FAX:
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9. FOR INFORMATION CALL:	A. NAME ERIC RETA	B. TELEPHONE NO. <i>(Include area code) (NO COLLECT CALLS)</i> 928-328-6163
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**SOLICITATION**

**NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".**

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS *(Title, identifying no., date):*  
  
Design and Renovation of Chapel  
  

DRAFT

11. The Contractor shall begin performance within <u>10</u> calendar days and complete it within <u>180</u> calendar days after receiving <input type="checkbox"/> award, <input checked="" type="checkbox"/> notice to proceed. This performance period is <input checked="" type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. <i>(See _____.)</i>	
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12 A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS  10
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13. ADDITIONAL SOLICITATION REQUIREMENTS:  
A. Sealed offers in original and 1 copies to perform the work required are due at the place specified in Item 8 by 02:00 PM *(hour)*  
local time 31 Aug 2005 *(date)*. If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.  
B. An offer guarantee ☒ is, ☐ is not required.  
C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.  
D. Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

<b>SOLICITATION, OFFER, AND AWARD (Continued)</b> <i>(Construction, Alteration, or Repair)</i>										
<b>OFFER (Must be fully completed by offeror)</b>										
<b>14. NAME AND ADDRESS OF OFFEROR</b> <i>(Include ZIP Code)</i>						<b>15. TELEPHONE NO.</b> <i>(Include area code)</i>				
<div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px;"></div>						<b>16. REMITTANCE ADDRESS</b> <i>(Include only if different than Item 14)</i>  <b>See Item 14</b>				
						<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100%; height: 20px;"></div>				
<b>17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due.      <i>(Insert any number equal to or greater than the minimum requirements stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)</i></b>										
<b>AMOUNTS</b>		<b>SEE SCHEDULE OF PRICES</b>								
<b>18. The offeror agrees to furnish any required performance and payment bonds.</b>										
<b>19. ACKNOWLEDGMENT OF AMENDMENTS</b> <i>(The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each)</i>										
<b>AMENDMENT NO.</b>										
<b>DATE</b>										
<b>20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER</b> <i>(Type or print)</i>						<b>20B. SIGNATURE</b>			<b>20C. OFFER DATE</b>	
<b>AWARD (To be completed by Government)</b>										
<b>21. ITEMS ACCEPTED:</b>										
<b>22. AMOUNT</b>		<b>23. ACCOUNTING AND APPROPRIATION DATA</b>								
<b>24. SUBMIT INVOICES TO ADDRESS SHOWN IN</b> <i>(4 copies unless otherwise specified)</i>				<b>ITEM</b>		<b>25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO</b> <input type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 253(c)				
<b>26. ADMINISTERED BY</b>			<b>CODE</b>		<b>27. PAYMENT WILL BE MADE BY:</b>			<b>CODE</b>		
<b>CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE</b>										
<input type="checkbox"/> <b>28. NEGOTIATED AGREEMENT</b> <i>(Contractor is required to sign this document and return _____ copies to issuing office.)</i> Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.						<input type="checkbox"/> <b>29. AWARD</b> <i>(Contractor is not required to sign this document.)</i> Your offer on this solicitation, is hereby accepted as to the items listed. This award commutes the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.				
<b>30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN</b> <i>(Type or print)</i>						<b>31A. NAME OF CONTRACTING OFFICER</b> <i>(Type or print)</i>				
<b>30B. SIGNATURE</b>			<b>30C. DATE</b>			<b>31B. UNITED STATES OF AMERICA</b> <b>BY</b>		<b>31C. AWARD DATE</b>		

## Section B - SUPPLIES OR SERVICES

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Design of Chapel FFP Design addition to Bldg 1100 (Chapel) in accordance with the statement of work in section C and the attached drawings.	1			
NET AMT					<hr/>

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Rennovation of Chapel FFP Rennovate, construct an addition and install acoustic system to Building 1100 (Chapel) in accordance with the statement of work in section C and the attached drawings.	1			
NET AMT					<hr/>

## Section C - DESCRIPTION/SPECS/SOW

DESCRIPTION/SPECS

**SECTION C**  
**STATEMENT OF WORK BUILDING 1100**  
**CHAPEL**

## C.1 GENERAL.

C.1.1 SCOPE OF WORK. The contractor shall provide design-build services, personnel, material, management, equipment, transportation, and any other items and services not government furnished necessary to renovate, an addition and acoustic system to building 1100 (Chapel) as defined in the UFC's and this work statement at U.S. Army Yuma Proving Ground (YPG), Yuma, Arizona. The design-build contractor shall perform to the attached Design & Construction Criteria and the conceptual drawings provided by the government in this contract. The building will be occupied during construction.

C.1.1.1 DRAWING AND SPECIFICATIONS. Accessories or incidental items not specifically shown and detailed on the drawings or specified herein, which are necessary and/or required to complete the work within the intent of the working drawings and specifications, when taken together shall be included by the Contractor without additional cost to the Government.

C.1.1.2 HOURS OF OPERATION. Work shall be provided during normal working hours. YPG is currently on a 4-day workweek schedule. The hours of operation are 6:30 AM to 5:00 PM, Monday through Thursday, excluding legal public holidays listed in Section C.2 of this work statement. On request, the contractor may be authorized to work weekends and other than conventional work shifts. This request shall be in writing to the Contracting Officer's Representative (COR), two standard work day prior to the requested time. These changes will not result in additional costs to the Government and must be within the restrictions of applicable labor laws.

C.1.2 BACKGROUND INFORMATION. Yuma, Arizona is situated in the southwest corner of the state, across the Colorado River from California and about 20 miles from Mexico. U.S. Army Yuma Proving Ground is located approximately 30 miles north of Yuma, along U.S. Highway 95. The terrain around Yuma is desert. Daytime high temperatures in this area average 105 degrees F in the summer (temperatures of 115 degrees are not unusual) and 70 degrees F in the winter with lows averaging 76 and 47 degrees respectively. Annual rainfall is less than four inches.

C.1.2.1 AREA OF RESPONSIBILITY: Yuma Proving Ground is a testing facility under the command of the U. S. Army Test and Evaluation Command. The mission of YPG includes the testing of vehicles, armament, aircraft and numerous other products that are to support the soldier in the field.

C.1.3 PERSONNEL. The contractor shall provide a work force possessing the skills, knowledge, and training to satisfactorily perform the services required by this contract.

C.1.3.1 CONFLICT OF INTEREST. The contractor shall not employ off-duty contracting personnel, contracting officer's representative, or other government personnel involved in surveillance of the contract, nor any other employee of the United States Government, either military or civilian, if such employment would create a conflict of interest or be contrary to the policies contained in this work statement. The contractor shall not employ any person who is an employee of the Department of Defense, unless such person receives prior approval in accordance with applicable military and civilian directives.

C.1.3.2 CONDUCT OF PERSONNEL. The Contracting Officer may require the contractor to remove from the job site any employee working under this contract for reasons of misconduct, security, or found to be or suspected to be under the influence of alcohol, drugs, or other incapacitating agent. Contractor employees shall be subject to dismissal from the premises upon determination by the Contracting Officer that such action is necessary in the

interests of the Government. In accordance with local directives and 18 U.S.C. 1382 (1972), the installation commander has the authority to bar individuals from the installation. The removal from the job site or dismissal from the premises shall not relieve the contractor of the requirement to provide sufficient personnel to perform the services as required by this work statement.

C.1.3.3 QUALIFICATIONS. The contractor shall have a valid contractor's license from any of the 50 United States.

C.1.3.4 SECURITY REQUIREMENTS. Contractor personnel, subcontractor personnel, or any representative of the contractor entering Yuma Proving Ground shall abide by all security regulations and shall be subject to security check.

C.1.3.4.1 SEARCH AND SEIZURE. Contractor personnel and property shall be subject to search and seizure upon entering the confines of the installation, while on the installation, and upon leaving the confines of the installation.

C.1.3.4.2 FACILITY CLEARANCE. The contractor will not be working with any classified information or material. A facility clearance is not required for this contract.

C.1.3.4.3 INSTALLATION ACCESS. The contractor shall be responsible for assuring all contractor personnel authorized to perform work under this contract obtain installation access as follows:

Ten days prior to commencing work, the contractor shall provide to each addressee below a listing of all personnel employed under this contract.

- (1) Directorate of Contracting, USAYPG  
ATTN: SFCA-SR-YM  
Contract No. \_\_\_\_\_  
Yuma, Arizona 85365-9106
- (2) Directorate of Law Enforcement and Security, USAYPG  
ATTN: CSTE-DTC-YP-CS-LE-S  
Contract No. \_\_\_\_\_  
Yuma, Arizona 85365-9102  
(Employees to work at YPG)

The information required for each employee is:

- (1) Employee's full name
  - (2) Social Security Number
  - (3) Date and Place of Birth
  - (4) Naturalization Number (if applicable)
  - (5) Citizenship
  - (6) Alien Registration numbers shall be provided for each employee who is not a United States citizen
  - (7) Date of Visit:
-

- FROM: \_\_\_\_\_ TO: \_\_\_\_\_  
(8) Purpose of visit  
(9) YPG point of contact

Any change in personnel information (e.g. new hires, terminations, or changes in personnel information already on file) that occurs during the performance of the contract shall be reported immediately in writing to the above addresses.

C.1.3.4.4 SITE SECURITY. The contractor shall be responsible for site security of his work area.

C.1.3.4.5 IDENTIFICATION BADGES. All identification badges issued by YPG shall be returned immediately to the place of issuance when one of the following occurs: (1) the completion of the contract (2) an individual's performance at YPG is terminated (3) if so directed by the Contracting Officer. All identification badges issued to the contractor must be accounted for either by turn-in or statement of loss. The contract shall not be considered complete or final payment made until all badges are accounted for. When badges are issued they shall be worn in plain sight above the waist.

C.1.3.4.6 AUTOMATION SECURITY REQUIREMENTS: Use of privately owned computers is prohibited at YPG without prior written consent of the Directorate of Law Enforcement and Security. The contractor shall comply with AR 380-19 and the applicable supplements when computers are brought into the installation.

C.1.3.4.7 DAMAGE: The contractor is responsible for the safeguard and protection of all materials and equipment under his control. The contractor shall report any damage, vandalism, or theft of his property on YPG to the YPG Police Desk.

C.1.3.5 CONTRACTOR REPRESENTATIVE. The contractor shall provide on site job supervisor who shall be physically present during work performance to conduct overall management coordination and furnish liaison with the Government. The job supervisor shall be the point of contact with the government and shall have the authority to act or make decisions for the contractor on all matters pertaining to this contract.

C.1.3.5.1 The contractor shall provide the name and telephone number for the job supervisor to the Contracting Officer within 5 calendar days following the Notice to Proceed. The contractor shall verbally notify the Contracting Officer of changes as they occur and provide written changes not later than 5 working days after the effective date of the change.

C.1.4 VEHICLE REGISTRATION. Motor vehicles entering the installation shall have a valid license and state registration. State license and registration shall be maintained current during the time the vehicle is in use on the installation.

C.1.4.1 VEHICLE OPERATION. Contractor personnel operating motor vehicles on the installation shall have a valid driver's license for the category of vehicle being operated and shall comply with posted signs on the installation.

C.1.4.2 CONTRACTOR VEHICLE IDENTIFICATION. Contractor owned vehicles used in the performance of services under this contract shall be marked as commercial contractor vehicles.

C.1.5 QUALITY CONTROL. The contractor shall implement a complete quality control program that identifies potential and actual problem areas in providing requirements of the contract as specified and results in corrective action throughout the life of the contract. The Quality Control Plan shall be provided to the Contracting Officer in accordance with Section 01330 SUBMITTAL PROCEDURES. The Government will make final review and acceptance of the plan. Changes to the plan shall be submitted to the Contracting Officer not later than 10 calendar days prior to the effective date of the change. The basic tenet of the plan is that the contractor is responsible for quality. All methods, procedures, and forms shall support this concept. If the contractor's system fails to produce acceptable results, the Government may direct changes in the plan or take other actions as necessary to assure

contract compliance, at the contractor's expense. Inspection and testing by the Government does not relieve the contractor of his responsibilities unless specifically so stated in the contract. Nothing expressed or implied in this contract shall be interpreted to limit the contractor's responsibility to perform sufficient numbers, types, or locations of tests and inspections to assure that all work meets the contract requirements. The Quality Control Plan (QCP) shall:

C.1.5.1 Be structured to assure independence from any other parts of the contractor's organization.

C.1.5.2 Have direct accountability to the contractor's top management.

C.1.5.3 Address overall project management and administration.

C.1.5.4 Be a comprehensive program to plan and deliver quality services to the Government. The plan shall have as a minimum three phases of control.

C.1.5.4.1 Preparatory Phase. This phase shall be done prior to beginning work on each delivery order and shall include at least a review of the delivery order's scope of work and drawings, review of applicable specifications, assurance that all submittals have been submitted and approved, and review of safety procedures.

C.1.5.4.2 Initial Phase. This phase shall be done at the beginning of the work. The contractor shall examine required materials and equipment, workmanship, and safety procedures are being done in accordance with the specifications.

C.1.5.4.3 Follow-up Phase. The contractor shall continue to monitor the quality of work, correct any deficiencies, and perform any required tests.

C.1.5.5 Describe a method acceptable to the Government of identifying deficiencies in the quality of service performed under this contract before the level of performance becomes unacceptable and address processes for corrective actions without dependence upon Government direction.

C.1.5.6 Establish an inspection system covering all services required by this contract. This plan shall specify areas to be inspected on either a scheduled or unscheduled basis and the title of the individual who will do the inspection.

C.1.5.7 Require documentation of all contractor quality control inspections and corrective actions be maintained by the contractor throughout the term of this contract.

C.1.5.8 Describe methods of direct and indirect communications with the Government regarding performance of the contract. The communications shall include scheduled and informal meetings with the Government.

C.1.6 QUALITY ASSURANCE. The Government will monitor the contractor's performance under this contract in accordance with the inspection clauses included in the contract and determine acceptance.

C.1.7 PHYSICAL SECURITY. The contractor shall be pecuniarily liable for any damage to, or loss of, privately-owned property as a result of negligence on the part of the contractor or his employees during accomplishment of work required under this contract. The Government will not effect repairs to privately-owned property under the terms of this contract. Consequently, any repair made to privately-owned property by the contractor shall be at the contractor's risk and expense and will not be a liability to the Government.

C.1.7.1 KEY CONTROL. The Contractor shall be responsible for keys provided to the contractor by the Government. The contractor shall establish and implement procedures for ensuring that all keys issued are safeguarded and handled in accordance with Army Regulation (AR) 190-51.

C.1.7.1.1 The contractor shall report any occurrence of duplicated, misplaced, or lost keys to the COR within 2 hours after discovery and submit a written report to the COR and Contracting Officer by close of business the following day. The written report shall provide complete details relating to duplication, misplaced key, or loss.

C.1.7.1.2 In the event a key is duplicated, misplaced, or lost, all locks and keys for that system will be replaced by the Government. The contractor shall reimburse the Government for replacement of locks or rekeying required as a result of the incident.

C.1.8 FRAUD, WASTE, AND ABUSE. The contractor shall be responsible for maintaining proper conduct and good discipline within contractor occupied work area(s). Contractor personnel shall be encouraged to be alert to and report suspected situations of fraud, waste, and abuse or other intentionally dishonest conduct against the Government observed during or in the performance of this contract.

C.1.9 CONSERVATION OF UTILITIES. Contractor personnel shall practice utilities conservation and shall operate under conditions which preclude waste of Government furnished utilities of water and electricity.

C.1.10 FIRE PROTECTION. The contractor shall observe all directions for fire prevention and YPG Regulation 420-1. The contractor is required to obtain a hot work permit prior to start up on each day hot work is to be performed and to have a fire extinguisher readily available at each work site.

C.1.11 ACCIDENT REPORTING. The contractor's project manager shall immediately report all employee accidents, injuries or occupational illnesses, regardless of the severity, to the YPG installation Safety Office and the Contracting Officer's Representative (COR). The contractor shall maintain an accurate record of accidents resulting in traumatic injury or death and accidents resulting in damage to Government property, supplies and equipment.

C.1.12 SAFETY. The contractor shall safeguard and maintain all Government property as well as provide for the safety and well-being of personnel employed in the administration of this contract. The contractor shall comply with provisions of all safety regulations cited in Section C.6. The contractor shall develop and implement a safety program for employees in accordance with the United States Army Corps of Engineers' Safety and Health Requirements Manual EM 385-1-1. The program must include preparation of an Accident Prevention Plan. The plan shall be submitted to the COR in accordance with Section 01330 SUBMITTAL PROCEDURES for review and approval by the Safety Office. Revisions shall be submitted at least 3 days prior to the effective date of the change. As a minimum, the Accident Prevention Plan shall address:

- (1) Purpose
- (2) Company policy regarding accident/injury prevention
- (3) Responsibilities
- (4) Administration
- (5) OSHA requirements
- (6) Injury and accident report procedures
- (7) Hazard communication information, if applicable
- (8) Inspection and records
- (9) Education and training to include safety meetings. Copies of all safety meeting minutes shall be provided to the COR and Contract Administrator
- (10) Incentive awards program for safety and suggestions
- (11) Fall protection program

C.1.13.1 The contractor shall comply with the Occupational Safety and Health Act (OSHA). Contractor personnel shall wear safety items required by OSHA during the performance of tasks requiring protective equipment or clothing.

C.1.13.2 The contractor shall assume full responsibility and liability for compliance with all applicable regulations pertaining to the health and safety of personnel during the execution of work and shall hold the Government harmless for any action on the contractor's part or that of the Contractor's employees or subcontractors which may result in illness, injury, or death.

C.1.13.3 CLASS 1 OZONE DEPLETING SUBSTANCES.



C.1.13.3.1 Per Section 326 of Public Law 102-484, effective 1 June 1993, specifications and standards cannot require the use of Class 1 Ozone Depleting Substances (ODS) without approval. There are some cases where a specification or standard allows the use of an ODS, but does not specifically require its use. A situation of this type does not require substitution under the law.

C.1.13.3.2 If this requirement allows, but does not require, the use of a Class I ODS, although it is not mandatory for the contractor to use a non-ODS substance, the contractor is encouraged to give preference to using the non-ODS choice.

C.1.13.4 The contractor shall maintain on file copies of Material Safety Data Sheets (MSDS) for all hazardous material stored, transported or used on YPG. The contractor shall furnish copies of all MSDS's to the COR.

C.1.14 FILES. The contractor shall maintain complete and accurate files of documentation, records and reports required under the terms of this contract. The contractor shall not allow access to the files by any government agency, non-government agency, or individual unless specifically authorized by the Contracting Officer. Files shall be made available to the Contracting Officer or designated representative upon request. All files will become the property of the Government and shall be turned over to the Contracting Officer at the completion or termination of this contract.

C.1.15 DISCLOSURE OF INFORMATION. Neither the contractor, nor contractor personnel, shall divulge or release data or information developed or obtained under performance of this work statement, except to authorized government personnel or upon written approval of the Contracting Officer.

C.1.15.1 The contractor shall direct to the Contracting Officer all inquiries, comments, or complaints arising from matters observed, experienced, or learned as a result of, or in connection with the performance of this contract, the resolution of which may require the dissemination of official information.

C.1.15.2 Inquiries received by the contractor for work performed under this contract shall be referred to the Government for evaluation under the Freedom of Information Act of 1975, Public Law 93-502, 5 U.S.C., Section 552. The determination of whether records will be released will remain with the Government. The contractor shall be responsible for search and submission of records upon request by the Government.

C.1.15.3 The contractor shall not release any information (including photographs, files, public announcements, statements, denials or confirmations) on any part of the subject matter of this contract or any phase of any program hereunder without the prior written approval of the Contracting Officer.

C.1.16 SMOKING. There is no smoking allowed in any Government facilities unless otherwise posted as a designated smoking area.

C.2 DEFINITIONS. For the purpose of this contract, the following definitions will apply.

C.2.1 STANDARD DEFINITIONS.

C.2.1.1 CONTRACT ADMINISTRATOR. The official Government representative delegated authority by the Contracting Officer to administer a contract. This individual, normally working in an appropriate contracting or procurement career field, advises on all administrative contractual matters.

C.2.1.2 CONTRACTING OFFICER. A person duly appointed with the authority to enter into and administer contracts on behalf of the Government.

C.2.1.3 CONTRACTING OFFICER'S REPRESENTATIVE (COR). An individual designated in writing by the Contracting Officer to act as an authorized representative of the Contracting Officer to perform specific technical contract functions within the scope and limitations as defined by the Contracting Officer.

C.2.1.4 CONTRACTOR. The contractor, its subsidiaries and affiliates, joint ventures involving the contractor, or any entity which the contractor may have merged or any individual or entity that works for the contractor under this contract.

## C.2.2 TECHNICAL DEFINITIONS.

C.2.2.1 ASTM. American Society for Testing and Materials.

C.2.2.2 AUTHORIZED VISITOR. Any visitor to the site whose visit has been authorized by the Government.

C.2.2.3 CALENDAR DAY. The time from midnight to midnight.

C.2.2.4 GOVERNMENT. The U.S. Army, Yuma Proving Ground hereinafter referred to as the Government, the Contracting Officer, or the COR as applicable.

C.2.2.5 LEGAL PUBLIC HOLIDAYS. Holidays in each calendar year identified as follows:

New Year's Day, January 1  
Martin Luther King's birthday, the third Monday in January  
President's Day, the third Monday in February  
Memorial Day, the last Monday in May  
Independence Day, July 4  
Labor Day, the first Monday in September  
Columbus Day, the second Monday in October  
Veteran's Day, November 11  
Thanksgiving Day, the fourth Thursday in November; and  
Christmas Day, December 25

C.2.2.6 MSDS. Material Safety Data Sheet - OSHA Form 20 or equivalent form containing health hazard information about chemical products.

C.2.2.7 OSHA. Occupational Safety and Health Administration.

## C.3 GOVERNMENT FURNISHED PROPERTY (GFP) AND SERVICES.

C.3.1 UTILITIES. The Government will provide and maintain electrical and water services currently available in the work area.

C.3.2 LANDFILL. Contractor may dump non-hazardous materials associated with his work at YPG at the YPG landfill.

C.4 CONTRACTOR FURNISHED ITEMS. The contractor shall furnish all property and services not specifically identified in Section C.3 as government furnished, but which are necessary to perform the requirements of this contract. Contractor furnished property and services shall be compatible with existing government systems.

C.4.1 MATERIALS. The contractor shall deliver all materials in the original packages, containers or bundles bearing the name of the manufacturer, the brand name, and labeling as required by 29 CFR 1910.1200. The contractor shall store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficient to prevent damage or contamination. The contractor shall not use damaged or deteriorating materials and shall remove them from the premises.

## C.5 SPECIFIC TASKS.

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C.5.1 MANAGEMENT DUTIES. The contractor shall be responsible for management duties as delineated in the following tasks:

C.5.1.1 Contract Submittals. Prior to commencement of work, the contractor shall provide appropriate number of copies of submittals noted to the destinations provided as specified in Section 01330 SUBMITTAL PROCEDURES of the specifications.

C.5.1.2 The contractor shall submit to the COR before noon of the following work day a daily report showing work done, general weather conditions, problems encountered and any other information deemed pertinent. The job supervisor(s) shall report to the COR daily to discuss work progress and any problems.

C.5.1.3 Meetings. The contractor shall attend a pre-construction meeting.

C.5.2 Site Waste. The contractor is responsible for keeping the work site free from debris and trash in accordance with FAR 52.236-12. Removal of trash and debris shall be on a daily basis.

C.5.3 Storm Protection. When inclement weather such as rain or wind is eminent, the contractor shall take every practical precaution to minimize interior and exterior damage to government property.

C.6 APPLICABLE DOCUMENTS. The contractor shall comply with the following regulations, requirements and standards and shall be directly responsible for compliance on the part of his agents, employees, material suppliers and subcontractors. The contractor shall directly receive and be responsible for all citations, assessments, fines or penalties that may be incurred by reason of his agents, employees, material suppliers or subcontractors failing to comply. Where conflicts exist between requirements, the more stringent requirement will govern.

C.6.1 OCCUPATIONAL SAFETY AND HEALTH ACT. The contractor shall comply with the requirements of the General Industry Safety and Health Standards, 29 CFR Part 1910 and the Safety and Health Regulations for Construction, 29 CFR Part 1926, including any other standards and regulations which are incorporated therein.

C.6.2 NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS. The contractor shall comply with the National Emission Standard for Hazardous Air Pollutants, 40 CFR Part 61, Subparts A and B as amended and applicable.

C.6.3 STATE AND LOCAL REQUIREMENTS. The contractor shall comply with the State of Arizona Division of Occupational safety and Health Regulations for construction.

C.6.4 INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) DOCUMENTS. The contractor shall perform all work to comply with the Uniform Building Code, latest edition; Uniform Mechanical Building Code, latest edition; Uniform plumbing Code, latest edition, National Electrical Code, latest edition.

C.6.5 CORPS OF ENGINEERS. Safety and Health Requirements Manual EM 385-1-1, latest edition.

C.6.6 AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): 1995-1996 Threshold limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.

C.7 PAYMENT. Payment shall be approved by the Contracting Officer's Representative. It is strongly recommended that the contractor discuss progress payments with the COR prior to invoicing in order to avoid delays in payments. Final payment will not be paid until final as-builts have been received and approved by the Contracting Officer.

C.8 AS-BUILTS. The contractor shall be required to have one set of project blueprints at the construction site at all times. These blueprints shall be kept current of as-built conditions. Contractor shall provide an electronic file of all drawings on a CD reflecting "As-Built" conditions as well as his set of red-lined as-built blueprints to the COR within 14 days after all work is completed for each Delivery Order. Each sheet of the drawings shall be clearly marked "As-Built". Drawings shall be size "ARCH D 24"x36" " with YPG title block. The electronic drawings shall be in AutoCAD (R2000 or later).

--End of Section--

SOUND SPECIFICATION

**CONSTRUCTION RELEASE**

**SPECIFICATIONS FOR:**

**NEW SOUND REINFORCEMENT SYSTEM  
THEATRICAL/ARCHITECTURAL LIGHTING  
VIDEO PROJECTION SYSTEMS**

**TO BE INSTALLED AT**

**Chapel Renovation  
US ARMY YUMA PROVING GROUND  
Yuma, Arizona**

**1. GENERAL****1.01 RELATED DOCUMENTS**

- A. The General Conditions, Special Conditions, Contract Documents and Architectural Drawings are part of these specifications. Consult them for further information and be governed by the requirements therein.

**1.02 DESCRIPTION**

- A. Permanent sound system microphone and remote speaker networks shall be installed as described herein. These networks shall make up the Sound Reinforcement/Effects System. These networks consist of connector plates, back boxes, conduit and interconnecting cables as detailed in the A/V SYSTEM RISER drawing and the SOUND SYSTEM SCHEDULE. The microphone shall terminate in the sound booth and monitor speaker networks shall terminate in the sound racks. Main speaker networks which start in the sound racks shall terminate at each speaker location.
- B. The sound system ancillary racks in the sound booth both shall contain provisions for microphone patching. All system power amplifiers, and all system signal processing equipment, equalizers, delays, etc shall be contained in the main system racks in EXISTING SOUND ROOM.
- C. The Main Sanctuary sound system shall provide sound reinforcement from, microphones located throughout the stage area, to all audience seating positions in the Sanctuary. A professional quality audio mixing console shall be provided. The primary source of reinforced sound shall be via a Left/Center/Right speaker cluster arrangement mounted above and to the side of the stage, all where indicated on the drawings. A ground-supported array of subwoofer low frequency speaker units is specified as well. The sound systems shall also be capable of being used to provide background music. System outputs shall be provided for making tape recordings of a program or for providing a broadcast feed. Sound effects sources shall include microphones, tape recorders, CD's, records, or any external source; individually or in any combination. The system shall have two modes of operation:
  - Mode 1: Auto-mix operation requiring no operator attendance.
  - Mode 2: Full event production at control booth location.
- D. Monitor loudspeakers, with suitable amplifier power, shall be provided on the stage at each location where shown on the stage layout.
- E. BOSE, Crown, EAW, Middle Atlantic, Samson, Shure, Sound Advance, TOA, Yamaha shall manufacture the sound reinforcement equipment, or other manufacturers approved in advance by the A/V consultant.

- F. Provide for a complete and satisfactory operating sound reinforcement system for the pickup, amplification, distribution, reproduction of voice and/or other program material.
- G. All equipment, except portable equipment, shall be held firmly in place. This shall include all loudspeakers and amplifiers. Fastenings and supports shall be adequate to support their loads with a safety factor of 5.
- H. All switches, amplifier equipment shall be clearly, logically, and permanently marked using proper size plastic nametags fastened with permanent type of adhesive. The providing manufacturer shall professionally etch all microphone/monitor plates.

## **2. PRODUCTS**

### **2.01 EQUIPMENT MANUFACTURERS**

- A. All reference to manufacturer's supplier's model numbers and other pertinent information herein are supplied to establish minimum standards of performance, function and quality.
- B. Specified manufacturers shall be engaged in the manufacture of sound system equipment for at least 7 years and have a fully equipped, factory trained and authorized service organization within 200 miles of the jobsite. The model numbers used are indicated by manufacturer, and constitute the quality and performance of the equipment to be furnished.

### **2.02 APPROVED EQUIPMENT**

- A. Equipment and materials shall be as specified or prior approved equal.

## **3. CONTRACTUAL RESPONSIBILITY**

- A. The responsibilities of the Media Contractor include, but are not limited to: The supplying of total working systems, the verification of completeness of the equipment listed herein, the verification of manufacturer's type numbers of the specified components including the manufacturer's current model change over where applicable; verification of the overall suitability of the systems and their components herein specified to meet the functional and performance requirements and the furnishing of additional equipment that may be required to meet the functional requirements without claim for additional compensation.
- B. Maintain a complete set of sound reinforcement system and multi-media system drawings and specifications at the site at all times during installation.

- C. Supplying of all components, wiring and testing shall be the responsibility of the sound reinforcement/multi-media contractor.
- D. Supply any incidental equipment needed in order to meet the requirements stated herein and on drawings, even if not specified or shown on drawings, without claim for additional payment.
- E. Verify correctness of parts list and equipment model numbers and conformance of each component with manufacturer's specifications.

#### **4. QUALITY ASSURANCE**

- A. In order to maintain a single point source for service and replacement parts, it is required that the special electronics systems specified herein be supplied and installed by a single Media Contractor, who is also the factory-authorized distributor for all the equipment being supplied.
- B. A letter from an officer of the major equipment manufacturer, stating that the Media Contractor is the authorized distributor/installer of the equipment and that the manufacturer shall deliver through this authorized distributor all of the specified or approved equipment, shall be included in the Media Contractors submittal.
- C. Supplier of this equipment shall have maintained a factory service facility for a period of not less than five (5) years. Supplier shall have capabilities of responding to service calls with a factory trained Technical Representative within twenty-four (24) hours. This supplier shall maintain an adequate local stock of all parts necessary for the repair of this equipment on hand at all times.
- D. Model numbers listed are used to establish a standard of quality.
- E. The Media Contractor shall hold a valid contractor's license registered in the State where this contract is to be let.
- F. The Media Contractor shall have been in business a minimum of five years. He shall be thoroughly familiar with all the major lines of equipment he is supplying.
- G. The Media Contractor shall be financially in good standing with all his suppliers so as not to delay the project. He shall also meet all Labor and Building Trades Union requirements for the local area.
- H. The Media Contractor shall have been trained in the science of system equalization either by a manufacturer who is normally engaged in training for system equalization or by a specialized organization such as Syn-Aud-Com. Provide satisfactory proof of such training.
- I. The Media Contractor shall establish his ability to perform the performance testing by furnishing a list of acoustical survey equipment to be used identified by manufacturer, model and serial number. All test equipment shall be of standard, commercially available manufacture. In particular, the Media Contractor shall have a TEF unit, preferably TEF model 20, and be trained in its use.

#### **5. BIDDING PROCEDURES AND REQUIREMENTS**

- A. The bid must include a complete list of materials and quantities for each item specified.

- B. Media Contractor shall furnish the following information on a minimum of three (3) completed sound reinforcement, equalized systems that will be of the type described in this specification.

1. Name of Job:
2. Address:
3. Completed date of equalization:
4. Name of person to contact:
5. Type of equalizer used:
6. Manufacturer of filters/equalizer
7. Band width of filters/equalizer
8. Method used to adjust filters: (Describe method in detail):
9. List of professional test equipment owned by contractor:

- C. Provide individual costs and supply manufacturers' specifications for any equipment alternates where listed.

- D. Verify with manufacturers the future availability and cost of all equipment proposed. After the contract is let, no cost increases will be allowed for manufacturers' cost increases or for substitutions required because of unavailability of specified equipment.

## **6. SPECIAL CONDITIONS**

- A. The working area shall be left free of packing material and other trash as much as possible at all times. At the end of each working day, all areas shall be cleaned and trash hauled away.

## **7. SUBSTITUTIONS**

- A. Manufacturers who are subsequently listed as acceptable suppliers of the major equipment, following each system description, need not request prior approval to bid. Others will be considered substitute equipment and must be pre-qualified. Pre-qualifications must be received ten (10) days prior to bid and must include a complete equipment index of engineering data on all indexed equipment with diagrams for system layout or custom components.
- B. The fact that a given manufacturer chooses not to manufacture a product equal in function and quality, the same being in the sole control and discretion of the manufacturer, shall in no way relieve the bidder of his responsibility to comply fully with requirements of these specifications.

## **8. SUBMITTALS**

- A. Submittal documents must be presented within 10 days of contract award. Work shall not proceed without submittal approval.
- B. Comply with pertinent provisions in accordance with Architect's General Conditions.
- C. Submit manufacturer's Product Data for each item of construction to be provided as a part of this Section.



- D. Submit two (2) copies and one (1) reproducible set of complete Shop Drawings and details showing at a minimum; equipment rack elevations, speaker mounting and aiming detail, all connector panel layouts, patch-bay layouts, and functional one-line block diagrams.

**9. MATERIALS AND EQUIPMENT**

- A. All materials and equipment furnished by the Media Contractor in the execution of the work specified herein shall conform to the applicable provisions of the UL, USASI and ANSI. In addition, all equipment shall be NEW and of current manufacturer's model as of the date of installation. All equipment shall be 3-wire grounded to comply with OSHA requirements and The Division of Industrial Safety. All major components furnished hereunder shall have the manufacturer's nameplate affixed with appropriate labeling as to model and serial numbers.

**10. RELATED WORK SPECIFIED ELSEWHERE**

- A. All conduit and electrical junction boxes, such as used for conduit termination, wire collector boxes, equipment back boxes, and related supplies are provided and installed by this section. All required electrical equipment, parts, termination and service for this specification to be installed under this section.

**11. SYSTEM DESCRIPTION AND FUNCTIONAL CAPABILITIES**

- A. The system, as designed, shall be a high quality, concert level sound reinforcement system with Left, Right and Center speaker clusters capable of producing equal sound pressure levels to all seating areas in the Auditorium while producing a full frequency range of music along with the spoken word and must be capable of delivering at least 90dB of continuous sound pressure level to the farthest listener in the main room within + or - 2dB.
- B. A total of twenty-four (24) microphone inputs will be provided for the Auditorium system as follows:
  - 1. Mic inputs will be installed in ACE 122-SL-BK Floor Pockets to be located where shown on the plan. Each Floor Pocket is to contain Eight (8) Neutrik NC3FDL-1 connectors for microphone inputs, quantity as indicated on the plans; and Two (2) Neutrik NL4 jacks for floor monitor speakers. Provide ACE #102BBX back box as required.
  - 2. All other microphone inputs, monitor outputs, and production inter-com jacks will be installed on, Media Contractor supplied, Pro Co custom etched plates and installed on specified J-boxes supplied and installed by Electrical Contractor at places indicated on electrical drawings. The Media Contractor shall coordinate with the Architect and the Electrical Contractor the final and exact location of each Floor Box.
  - 3. (2) 2-gang mic plates labeled Automix 1-4 will be installed at the center downstage location. These mic inputs will be used to access the "automatic" mic mixing feature in the Crown IQ USM810 processor to be used during required "no-operator" use of the main audio system

- A. The Media Contractor shall furnish, install and wire a Soundcraft K2/24 sound reinforcement audio console. All mic inputs and all line outputs appropriate to the Auditorium Sound system are to be terminated at the console. Console to be mounted on a counter to be provided by General Contractor. Number each end of all cables within 1" of the connector at connector end.

## 11.02

**SOUND SYSTEM EQUIPMENT RACKS**

- A. Provide metal-shielded equipment racks equipped with vented front and rear locking doors and vented side panels that are to be installed by the Media Contractor in EXISTING SOUND ROOM #. Equipment racks will be used to house all amplifiers and processors for the Sound Reinforcement System and Stage Monitor System and to provide future space for Client's components. Racks will be sized to accommodate a minimum of 44 spaces of rack panel space. The depth of the racks shall be 25 inches. Furnish and install floor standing racks as required, manufactured by Middle Atlantic Products, model #WRK-44-25 complete with locking rear doors and all service necessities. Front locking doors shall be vented. All vent/blank panels shall be provided as well as appropriate power sequencing equipment. A minimum of one (1) single-space panel is required spacing between each component mounted in the equipment racks. All blank spaces in the rack shall be filled with appropriate blank panels, finish to be same as the rack.

**12.****SOUND REINFORCEMENT SYSTEM EQUIPMENT**

## 12.01

**MICROPHONE EQUIPMENT PACKAGE:**

- A. Provide unit prices on Shure SM58 or equal microphones complete with 25' cables and connectors. Base Bid include: 4
- B. Provide unit prices on Shure SM57 or equal microphones complete with 25' cables and connectors. Base Bid include: 2
- C. Provide unit prices on Shure Beta 57 or equal microphones complete with 25' cables and connectors. Base Bid include: 0
- D. Provide unit prices on Shure Beta 58 or equal microphones complete with 25' cables and connectors. Base Bid include: 0
- E. Provide unit prices on Shure Beta 87 or equal microphones complete with 25' cables and connectors. Base bid include: 0
- F. Provide unit prices on Crown SSAS-P MII or equal microphones complete with cables, connectors, and phantom power supply. Base bid include: 0

12.02 **WIRELESS MICROPHONE SYSTEM**

Furnish and install a multi channel UHF wireless microphone system to include the following components. Provide one dedicated portable rack with rack front illuminating power strip. Rack height shall not exceed 29 inches to accommodate under counter storage and operation.

- A. Shure UC14D/84 Dual Diversity Receivers W/Dual Lavalier Microphones. Furnish and install 2.

- B. Shure UC14D/Beta87 Hand Held Transmitters W/Dual Diversity Receivers. Furnish and install 2.
- B. Shure UA 845 Antenna Distribution Amplifiers. Furnish and install 1, complete with all coax and dual remote antennas.

Media Contractor shall be responsible for all frequency coordination required for the wireless microphone systems and the assisted hearing systems.

CAUTION: CONSULT FACTORY FOR SELECTION OF FREQUENCIES

12.03

#### AUTOMATIC ROOM MIXER

- A. Media Contractor shall furnish and install four microphone inputs to one Crown IQ USM-810 processor, designed to be used during events and programs where no operator is in attendance. Media Contractor must be an authorized Crown dealer knowledgeable with the proper programming sequence of the USM-810 mixer and able to deliver a fully operating automatic microphone mixing system using this device. Provide four (4) fully programmed dedicated active microphone inputs located at client's direction.

12.04

#### DIGITAL SIGNAL PROCESSING

- A. The multiprocessor for the Auditorium system shall be the Crown IQ-USM 810, capable of 8x10 matrix compression, delay, crossover, parametric EQ, splitting, summing, limiting, with no end-user incidental access except through RW232 protocol. Multiprocessor is to be housed in the main equipment cabinet equipped with locking doors. Wire proper output from the Mixing Console through appropriate equalizer on to its respective components. Furnish, install, and calibrate units for proper system operation.
- B. All equalization calibration shall be through the use of a Techron TEF (Time, Energy, Frequency) or equal analyzer. Media Contractor must be licensed to operate this unit and must have completed a current course of study offered by Techron to use the TEF analyzer.
- C. Media Contractor is urged to pay special attention to the required Digital Delay units as part of this system due to the unusual amount of Time Alignment required. The delay shall meet or exceed the following specifications: Distortion less than 0.4% at 1kHz; frequency response of + or - 5dB (+ or - 3dB at band ends) 20 Hz at reference output of 0 dB; dynamic range shall be greater than 92 dB, unweighted; a security lock-out feature shall be inherent to prevent tampering; a variation of at least -40 dB shall be possible from recessed front panel output attenuators. The delay line shall be capable of operating from 110/220 VAC + or - 20%, 50/60 kHz.

12.05

#### AMPLIFIER CIRCUITRY

- A. Main auditorium amplifiers shall utilize Balanced Current Amplifier Circuitry.
- B. Amplifiers shall be Crown CTs-IQPIP Series.
- C. Remote Power Control

1. Supply Four (4) Lowell RPC-1-20A, 120VAC, 20 amp circuits. Electrical Contractor to install in main sound system equipment racks.
2. Supply One (1) Lowell RPC-1-20A, 120VAC, 20-amp circuit. Electrical Contractor to install under counter in main sound system sound booth.
3. Supply One (1) Lowell RPSW-K-R keyed remote switch and install in cabinet under counter in main sound system sound booth.
4. Supply One (1) Lowell SCS-8, 8-step sequential power switcher. Electrical Contractor to provide One (1) 120VAC non switched power outlet installed in the Middle Atlantic equipment cabinet in EXISTING SOUND ROOM.

12.06

## MAIN AUDITORIUM AMPLIFIERS

- A. The power amplifiers shall contain all solid-state circuitry, using complementary silicon semi-conductors. They shall be capable of operating from 110-125 Vac, 60 Hz. They shall use a toroidal transformer.
- B. The amplifiers shall contain two independent channels. Each channel shall have independent protective circuitry against open circuit, short circuit, or reactive loads, and the remaining channel shall continue to operate if one channel fails. A muting circuit shall provide three seconds of muting after turn-on, and shall mute within 1/4 second after turn-off or loss of power, to protect the load against turn-on or turn-off thumps. Self-resetting thermal shutdown shall protect the circuit breakers against AC overloads.
- C. Acceptable amplifiers are those manufactured by Crown International, CTs series. Furnish and install Crown CTs-600-IQPIP and Crown CTs-1200-IQPIP amplifiers, including IQ Loop, as required.

12.07

## MAIN AUDITORIUM SPEAKERS

- A. Furnish and install Left/Center/Right speaker systems utilizing concert-level component technology as manufactured by Eastern Acoustic Works (EAW) and Panaray technology by BOSE, or equal. Two speaker system arrangements shall consist of the following:

Stage Left       (2) BOSE MA12 Modular Line Array  
 (1) BOSE MB4 Bass Module

Stage Center     (1) EAW MK5366h Far Throw  
                       (1) EAW MK5396hR Near Throw

Stage Right      (2) BOSE MA12 Modular Line Array  
 (1) BOSE MB4 Bass Module

Crossovers shall be active. Furnish and install (1) BOSE Panaray System Digital Controller. Locate speaker clusters as indicated on the plans to provide uniform coverage in the auditorium space. Furnish and install mounting brackets, support members, and hardware to mount above speakers. Media Contractor shall furnish; install, wire and time align all speakers through the use of a Techron TEF (Time, Energy,

Frequency) analyzer. All speakers, mounting hardware and truss members shall be painted black.

12.08 SPEAKER MOUNTING

- A. Speaker Mounting Devices/Universal Mounting Assemblies/ Hardware as manufactured by authorized speaker mounting device manufacturer: Media Contractor to use only those mounting devices manufactured by or otherwise authorized by the speaker manufacturer. Provide specifications showing load-carrying capabilities along with safety factors of each device used.

12.09 STAGE MONITOR SPEAKERS

- A. Media Contractor shall provide and wire the following Stage Monitor Speakers and accessories:
  - 1. EAW SM129z Speakers, quantity 2, downstage area.
  - 2. Speaker extension cables, #14AWG, with NL4 to NL4 plug connectors, 25' long. Furnish 2.

12.10 TIME-ALIGNMENT OF CLUSTERS

- A. After speaker clusters are completed and properly focused to assure even coverage into all covered areas, remove any loose installation materials, which might rattle or otherwise interfere with a clean and clear signal. At this time securely tighten any and all nuts and bolts used for the cluster fabrication and installation.
- B. After speaker clusters are completed and all seats and floor coverings are in place, Media Contractor shall Time Align the clusters and equalize system to Auditorium acoustics. The only acceptable method to use to satisfy this portion of the Specifications is through the use of a Techron TEF (Time, Energy, Frequency) analyzer.

12.11 OUTBOARD SPEAKERS WITH LINE MATCHING TRANSFORMERS

- A. Media Contractor to provide and install where shown on plans Sound Advance speakers installed in appropriate enclosures. Provide an auto-former type volume control in areas where shown on plans. All volume controls shall be Lowell AT-10PA, or equal.

12.12 WIRE/CABLE

- A. Wire for Outboard Speakers is to be plenum rated WestPenn #25224 or equal. All wiring shall be provided with a permanent marking system using an appropriate combination of numbers and letters. These numbers shall be provided and be the same at each end of the wire. These numbers are to be shown on the completed set of "As-Built" drawings that are to be provided at the completion of the installation. It shall be at the discretion of the Media Contractor to choose the appropriate numbers/letters except where already specified for patchbay wiring. It shall be the Media Contractor's responsibility to document all wiring numbers/letters on the "As-Built" drawings. All number/letter combinations shall be covered with clear heat shrink tubing.
  
- B. All Wire/Cable shall be specified as follows:
  - 1. Single Signal Lines: Belden #8451 (Black), or equal.
  - 2. Outboard Speaker Lines: WestPenn #25224, or equal.
  - 3. Multi-Pair Cable:
    - a. 52-pair: WestPenn #WP54141 Black Cobra, or equal.
    - b. 16-pair: WestPenn #WP54136 Black Cobra, or equal.
    - c. 9-pair: WestPenn #WP54134 Black Cobra, or equal.
    - d. 6-pair: WestPenn #WP54133 Black Cobra, or equal.
    - e. 2-pair: WestPenn #WP54131 Black Cobra, or equal.
  - 4. Auditorium Cluster Speakers: #12/2 stranded (in conduit)
  - 5. Monitor Speakers: #14/2 stranded (in conduit)
  - 6. Sub-Bass Speakers: #8 THHN stranded (in conduit)
  
- B. Appropriate barrier strips are to be provided at all speaker locations to terminate cable. Individual wiring from speakers to barrier strips is to be accomplished through the use of 14 Gauge jacketed cable. All wire shall be terminated at barrier strips with appropriately sized and insulated spade lugs. Barrier strips shall be Buchanan type, sized as necessary.

## 12.13

## SYSTEM EQUIPMENT RACKS

- A. Media Contractor to provide and install appropriate quantity of equipment racks, which shall be Mid Atlantic WRK \_\_-25 equipped with VFD-\_\_, vented front and solid rear locking doors and vented side panels.

NOTE: All electronic components are to be mounted in racks through the use of Middle Atlantic HDWE-P 10/32 x 3/4" Trusshead Phillips black machine screws with #10 black flat fiber washers.

NOTE: Supply all black anodized flanged vent panels between amplifiers and processors and black anodized flanged blank panels as necessary to fill all spaces not otherwise occupied with components.

- B. The equipment racks shall be equipped with Two (2) Middle Atlantic Lacer Strips cut to fit each rack.
- C. Provide Mid Atlantic black anodized flanged Blank Panels to fill in extra spaces in cabinet not taken up with other electronic components. As part of the "as-builts" Media Contractor will be required to provide detailed front and rear picture view of the equipment racks showing details of components including connectors and controls.

#### 12.14 CONTROL BOOTH PLAYBACK / EFFECTS EQUIPMENT

- A. Media Contractor shall furnish and install playback equipment, mounted at main console location. Provide all necessary patch cables to complete installation.
  - 1. Denon DNT-620 combination CD/Cassette.
  - 2. Denon DN770 Dual cassette.
- B. Media Contractor to provide unit installed prices on the following:
  - 1. Ea. -DBX 165A Compressor/Limiters, or equal
  - 2. Ea. -Yamaha SPX2000 Reverb, or equal
  - 3. Ea. -ART 470 Multiverb Alpha, or equal
  - 4. Ea. -Furman QN-44B Quad Noise Gates, or equal
  - 5. Sabine Power-Q DSP

#### 12.15 FLOOR BOXES

- A. Media Contractor to install Ace Backstage Concealed Service Floor Pockets.
- B. These Floor Pockets shall be supplied with Ace Backstage "ND" type plates as required at locations shown on Electrical Floor Plan. All "ND" plates are to be permanently etched by Ace Backstage with the proper microphone input, monitor output, sub-bass, and inter-com designation numbers.
- C. Provide appropriate Neutrick locking type connectors for all stage monitors outputs. All nomenclature for input plates is to be etched and filled with black paint.

#### 12.16 MICROPHONE RECEPTACLES

- A. At all other media locations other than Floor Pockets, receptacles shall be Pro Co black anodized plates where existing. All receptacles are to be etched and filled with appropriate color of paint.

### 13. PRODUCTION SUPPORT EQUIPMENT

#### A. ASSISTED HEARING SYSTEM

Media Contractor to provide, install and wire a complete and operating hearing assistance system that is in compliance with current ADA regulations. Provide one Williams Assistive Listening system base transmitter and portable receivers sufficient for 4% of the seating area. Media contractor shall be responsible for all frequency

coordination required for the wireless microphone systems and the assisted hearing systems.

**B. THEATRICAL/ARCHITECTURAL LIGHTING CONTROL SYSTEM**

Install a Theatrical/Architectural lighting/dimming system consisting of the following components:

1. Strand 300 Pro lighting console. Install a total of 1.
2. TFT monitor. Install a total of 1.
3. All equipment, where applicable standards have been established, shall be built to the standards of Underwriters Laboratories, Inc., the National Electric Code, and the United States Institute for Theater Technology. Approved equipment shall be so labeled on delivery to the job site.
4. This design is based on partial plans and specifications or a bill of materials.

**5. Lighting Control System to consist of:**

Dimmer Rack - Model CD80sv - to contain:

1—SR24 Dimmer enclosure for 24 modules - Designed for 3 phase 4 wire and ground operation at a maximum of 400A, 120/208V, 60Hz AC

12—CD80 Dual 20A dimmer modules (24 dimmers)

AFM Air Flow modules

CEM 96 Electronics modules

Locking doors with filter

6. External Processing Rack - Model ER4-120-CME-AIR-Wall mounted cabinet to contain:

1—ER4 rack for Architectural Control and Option modules - designed for single phase 2 wire with ground operation at 20A, 120V, 60Hz AC

1—CME Control Module with Unison Extended Architectural processor

2—AIR Airflow option module

7. Model ST63006 - (3 required) - Outlook Control Station with:
  - 1—White faceplate assembly to include the following:
    - 4—"Preset" Select Switches
    - 1—"Off" Select Switch

8. Accessories

1—CD-25DMX Digital control cable



### **9. Manufacturer's Services:**

Four sets of B size drawings for approval submitted within 4 weeks of receipt of order

Two year limited warranty on parts and workmanship

Services of a factory engineer to energize system and instruct user personnel. Such services to be supplied on 21 days notice.

Production requires 4 weeks for delivery of equipment after receipt of written approval and release

Two sets of Operation Manuals complete with As-Built Drawings delivered within 4 weeks of final Turn-on

10. Furnish and Install the following theatrical lighting fixtures:
  - a. ETC Source 4, #436 Lekos W/lamps, safety cables and C-clamps. Install a total of 4.
  - b. ETC Source 4, #450 Lekos W/lamps, safety cables and C-clamps. Install a total of 4.
  - c. ETC Source 4 PARNel Fixtures W/lamps, safety cables and C-clamps. Install a total of 8.
  - d. ETC Source 4 Zoom 41530 Lekos W/lamps, safety cables and C-clamps. Install a total of 4.
  - e. ETC Source 4 Zoom 42550 Lekos W/lamps, safety cables and C-clamps. Install a total of 4.
  - f. ETC HPL750/115 575 watt lamps. Provide a total of 48.
11. Electrical Contractor to install all high voltage devices. Media Contractor to install all low voltage devices.
12. Electrical Contractor to provide J-boxes for Strand Outlook Control remote Stations at locations shown on plans.
13. Electrical Contractor to provide and install mating plugs on each light fixture.
14. Dimmer system is to control Theatrical Lighting as well as Architectural lighting in the auditorium.

### **C. VIDEO PROJECTION SYSTEM**

Install a video system consisting of the following components:

1. Extron Distribution amplifier. Install a total of 1.
2. Extron Computer interface. Install a total of 1.
3. Extron RGBHV to composite interface. Install a total of 1.
4. Extron Switcher & RGBHV scaler. Install a total of 1.
5. Altinex RGBHV hi-res video cable. Install as necessary.
6. Eiki LC- LCD projector; 4000 lumens, XGA. Install a total of 1.

7. Da-Lite 105x140 (180") Advantage Deluxe Electrol Projection Screen. Matte White Surface. Furnish complete with remote control system. Install a total of 1.
8. Panasonic CT-1366Y 13" color video preview monitor. Install a total of 1.
9. Draper custom projector lift, bracket and control cable and remote. Install a total of 1

**D. FURNITURE**

Furnish and install (1) Inspire Series Extended Roll Top desk with extra rise as manufactured by H S A. Make certain size and type is sufficient to house all necessary equipment and functions. Provide color samples to architect for selection.

**14. FABRICATION AND INSTALLATION**

- A. The Media Contractor shall supply all equipment to insure fully completed and operational systems as indicated and specified herein.
- B. In the fabrication and installation, the Media Contractor shall take all necessary precautions to prevent any electromagnetic and electroacoustic hum and to prevent any radio frequency interference in any part of the system wiring; to provide proper ventilation for all equipment and to include those safety practices for the system operator consistent with good practice.
- C. Suspension and/or anchorage of all permanent equipment such as loudspeakers, amplifiers, etc. shall provide for a rigid connection between each unit and its support points and shall provide for a safety factor of not less than a three to one ratio.
- D. All controls, meters, receptacles, plugs, jacks, etc. shall be clearly marked to indicate function.
- E. Floor and/or wall receptacles with removable covers shall be labeled both internally and externally to insure correct mating of the removed covers. All cables shall be coded with permanently attached heat shrink "wire numbers" system.
- F. All wiring within conduits shall utilize jacketed (non-conductive) twisted pair cables for all services; in addition, microphone and line level cable pairs shall be individually shielded and insulated from each other. All cables shall be splice free for the entire cable length. All audio system receptacles, mounting plates and back boxes shall be grounded to the conduit system ground. Audio system circuits shall be maintained free of any connections between the circuit and any terminating connector/receptacle case or shell.
- G. All wiring within equipment racks between items of equipment shall be made via jacketed (non-conductive), shielded, twisted pair(s) cables dressed at right angles and tie-wrapped. All circuits shall be labeled according to their purpose through the use of a heat shrink label wiring system. Markers shall be installed on each wire within 1 inch of input source or within plain view.

- H. Cable shields shall be used for the sole purpose of shielding. Grounding of shields for microphone lines shall occur only at the microphone frame and input to preamplifiers except where routed via patch panels.
- I. Grounding of all line level circuits shall occur at the inputs to permanently connected terminating equipment except when routing via patch panels. Where microphones and line level circuits are interrupted and/or interconnected via patch panels, cable shields shall be grounded at the termination end only. Microphone and line level patch systems shall be segregated and separately grounded to the ground buss.
- J. Grounded and non-grounded cable shields shall be terminated from the equipment rack. All grounds and ground busses shall be terminated with "shrink-on" type tubing. Jack frames shall, in all cases, be insulated from the equipment rack. All grounds and ground busses shall be connected to a "wet earth" copper ground stake embedded to a depth of at least ten feet and connected via a #4 gauge minimum, insulated stranded copper cable. However, if a suitable ground is existing, connection may be made thereto by a cable as specified. This ground shall be used for the sole purpose of providing a ground to the audio system. No other ground(s) shall exist.
- K. All equipment racks shall be grounded at a single point to the ground buss. All rack-mounted equipment shall be checked for ground continuity between the equipment casing and the equipment rack. Audio circuit connections shall be maintained insulated from ground except at attenuator or filter connection points.
- L. At any connection point where an attenuation of more than 6dB may be introduced, a connection shall be made between the low side of the audio circuit and the cable shield. In cases where more than one attenuator may be interposed in a single or branched circuit, a single ground connection shall be made at the point of maximum signal attenuation.
- M. Microphone level, line level, loudspeaker level, and D.C. control cable lines shall each be separately bundled and routed at all times. All cables and cable bundles run within equipment racks shall be securely laced to cable support members while maintaining convenient access to all equipment connections. Microphone and loudspeaker level cables shall not pass through common junction boxes unless fully grounded and electrically conductive partitioning is provided.
- N. All AC power cables to AC outlets within equipment racks shall be run in steel conduit. All ground connections incorporated within the rack mounted AC outlets shall be connected solely to the audio system ground. All connections to screw terminals shall be made via spade type connectors and shall be appropriately color-coded. Due care shall be exercised to insure that the work is neat and that receptacles, plates, etc. are plumb and square.

## 15.

### SOUND REINFORCEMENT SYSTEMS PERFORMANCE CRITERIA

- A. The Media Contractor shall insure that the speakers at each cluster location have their direct signal aligned within Thirty (30) micro seconds when measured on the

auditorium's floor in the overlap zones of the near and far throw horns. Final delay settings will be that which produces the flattest FTC response. This measurement shall be made with the Techtron 20 TEF (Time, Energy, Frequency) analyzer. The contractor shall insure that once the proper alignment has been achieved that it will not change due to mechanical influences.

- B. Measurements of system acoustical performance shall be made using a calibrated ANSI standard type 1 or IEC precision sound level meter set for "slow" meter damping except as otherwise noted, and flat response with random incidence at a gain shall be adjusted to provide levels of 80 to 90 dB and at least 15 dB above background noise at the measuring locations for these tests, except as noted.
- C. The main cluster speakers shall be tuned to obtain a pink noise response that is plus or minus 2 dB from 60 Hz to 5000 Hz with a 6 dB per octave roll-off above 5000 Hz.
- D. The tuning and balancing of the system shall provide for frequency distribution that is plus or minus 4 dB from 80 Hz to 5000 Hz. in every seat in the audience. Additionally, for 95% of the audience seats, the frequency distribution shall be plus or minus 2 dB from 80 Hz to 5000 Hz.
- E. Once all tuning, balancing and time alignment of the system is complete, it will be the Media Contractor's responsibility to provide the Client with documentation affirming the proper and final settings of all controls in the various signal paths. Where possible, and practical, provide Client with picture documentation. Where picture documentation is not possible, or practical, provide Client with a list of the various components along with the "numbered" settings of each and every control.

## 16.

### DEMONSTRATION AND ACCEPTANCE TESTING

- A. Media Contractor shall perform final system adjustments and acceptance tests for each system. Media Contractor to provide all labor, materials, tools and measurement equipment necessary for these tests and adjustments.
- B. The Media Contractor's representatives assisting in these tests shall be thoroughly familiar with all details of the system bid and shall include the field supervisor in charge of that installation during the course of the installation work.
- C. Media Contractor should budget Eight (8) working hours for sound reinforcement system adjustments.
- D. Final testing may include any measurements of frequency response, distortion, noise or other characteristics and any adjustments deemed necessary may be performed on any item or group of items including re-orientation of loudspeakers, to insure optimum performance of the system.
- E. Final Acceptance: In summary, final acceptance of the installation will be granted when it is clear to the Client that the following conditions have been met:
  - 1. All equipment has been furnished and installed according to these specifications.
  - 2. All equipment and installation has been tested and shown to perform as specified herein.

3. Instruction books and wall-mounted diagrams have been completed and delivered to the Client.
  4. The Owner has accepted the final system equalization.
- F. Media Contractor's Presentation And Preliminary Adjustments: Upon completion of the system's installation and prior to the final acceptance testing, the Media Contractor shall be responsible for the following:
1. Provide One (1) reproducible and One (1) print of a "single line" "As-Built" diagram showing the following:
    - a. The interconnection of each and every component in it's
    - b. Correct functional relationship and indicate "geographical" location.
    - b. All equipment Makes and Model numbers.
- G. Provide One (1) copy of an Operations Manual describing and/or including the following:
1. The designed functions of the systems.
  2. Any and all additional possible functions.
  3. The operation of each item of equipment.
  4. A maintenance instruction manual for each item of equipment.
  5. A copy of the measured performance data for each item of equipment.
  6. One (1) set of "As-Built" one-line block diagrams.
  7. One (1) set of "Patch-bay" designation forms including wire-numbering sequences. Mount inside clear sheet protectors.
  8. One (1) set of EQ curves for each Equalized section of the Main House System and Monitor Systems. These are to be the "hard" copies of finished curves taken during "room-tuning" by Contractor.
  9. Provide heavy-duty dividers between each section.
  10. These Operations Manuals are to be mounted in a D-Ring Binder.
- H. Conduct visual and electrical performance tests to ascertain that the following conditions exist:
1. All circuits and receptacles are correctly labeled and coded at each termination point.
  2. All similar type circuits are identically phased and that, unless specified herein or on the drawing, all circuits are balanced and isolated from ground.
  3. All switches and other controls are correctly labeled as to function and provide positive indication of "in use" and alternate circuit modes.

4. The gain structures of all circuits, where variable, are set for optimum signal level to noise level and freedom from distortion and/or circuit overload.
5. The overall gain structure of similar circuits is identical within + or - 0.5 dB.
6. All equipment is operating within its installed environment within the specification limits set down by the equipment manufacturer.
7. All electrical source and terminating impedances are as specified herein or as required by the performance specifications of the equipment manufacturer.
8. The complete system, when operating at maximum or any lesser gain, is completely free of oscillation, parasitics or other instabilities.
9. The complete system is operable as specified herein with the exception of the adjustment of the required equalization.
10. Upon completion of the above work, contractor shall notify Client that preliminary testing is complete and that the systems are ready for inspection and acceptance by Client.

**17. FINAL INSPECTION AND CONSULTANT ACCEPTANCE TESTING**

- A. Final inspection and acceptance testing of the system installation shall be conducted when Media Contractor has complied with the requirements as set forth under Contractor's Presentation and Preliminary Adjustments.
- B. Acceptance testing will only be undertaken upon satisfactory completion of the Media Contractor's Presentation and Preliminary Adjustments. The Media Contractor in consultation with the Client determines the completion date of the above work with the required completion schedule for this work. Upon completion of the above work, the Media Contractor will schedule a date for commencement of the acceptance testing and system's equalization if so agreed upon.
- C. The Media Contractor shall demonstrate to the Client the satisfactory operation of the total systems using all equipment specified.
- D. Subjective listening tests will be conducted for the Client and shall be considered as criteria for systems acceptance. If it is evident that the systems are not functioning properly, the Media Contractor shall be required to demonstrate the performance of any of the components to ascertain their acceptability. In order to perform these tests, the contractor shall make available, on-site, the following equipment:
  1. Volt ohmmeter
  2. Pink noise generator
  3. Sound level meter
  4. Real time analyzer

5. Circuitry continuity tester
6. Techtron TEF20 with latest edition software
7. Other equipment as deemed necessary

- E. The above test equipment shall comply with or exceed the performance specifications listed herein or shall permit the performance evaluation of any item of equipment specified herein.

**18. GUARANTEE**

- A. All equipment furnished under this Section of the Specification shall be guaranteed by the Media Contractor to be in excellent working order, free of defects and poor workmanship, and to perform satisfactorily for a period of 12 months. In addition, all of the electronics shall carry the individual manufacturer's extended guarantee. This extended warranty is for repair of equipment only. Any defective component shall be repaired or replaced at no cost to the client for a period of 12 months following the final acceptance. The Media Contractor shall undertake one annual inspection visit during the guarantee period with no labor costs but travel and per diem costs at the Client's expense. The Contractor shall complete Service calls within 24 hours of notification by the Client, or its representative, of malfunction of the equipment.
- B. Paint and exterior finishes, fuses and lamps excluded from above warranties except when damage or failure results from defective materials or workmanship covered by warranty.
- C. The minimum warranty provisions specified above shall not diminish the terms of individual equipment manufacturers' warranties.

**19. DRAWINGS INCLUDED WITH SPECIFICATIONS**

- A. A complete set of plans has been offered as a part of these specifications to make the proposed function of this system more clearly to the Media Contractor. Media Contractor shall submit working one-line drawings prior to systems installation. Media Contractor shall point out any vagaries or omissions in these drawings, or any items in the specifications that are not shown on the drawings.

**21. COMPLETENESS OF INFORMATION**

- A. The Media Contractor believes that all information furnished herein is correct and current as of the date published. The Media Contractor shall be responsible for verifying the accuracy or completeness of any furnished information he feels is critical to the system. In the absence of specifications regarding details, the best general practice shall prevail and first quality material and workmanship shall be required.

**22. COORDINATION AND STAFFING**

- A. Maintain the same person in charge of work throughout installation.
- B. Remove refuse from the job to the satisfaction of the General Conditions.

- C. Media Contractor is to provide proof of liability insurance and workers' compensation insurance for all employees or employees of sub-contractors where required by state law.
- D. Media Contractor is to assure himself that none of his employees consume alcohol or illegal drugs while on the job. No alcoholic beverages are to be allowed on the work site, nor is any worker to be allowed on the site while under the influence of alcohol.

## **23. DIAGRAMS AND INSTRUCTION MANUALS**

Provide the following documentation:

### **23.01 FUNCTIONAL DIAGRAMS:**

- A. This drawing shall be a simplified single-line block diagram showing interconnection of all major equipment components and their functional relationships. A copy of the Functional Diagram included with these Specifications, modified to provide any as-built changes, is suitable for this purpose. The diagram shall be complete on a single sheet. Mount one photographic (not blueprint) copy behind acrylic inside the rear rack door.

### **23.02 RECEPTACLE LOCATION PLAN:**

- A. This diagram shall be a plan of the building showing locations and designations of all receptacles. Mount one photographic copy of this diagram behind acrylic inside the rear rack door. Provide one photographic copy of this diagram to FOH console location AND Control Booth locations.
- B. Provide one photographic copy showing locations of all microphone jax and all monitor floor jax. Mount this diagram behind acrylic and place it at the mixing console.

### **23.03 COMPLETE INSTRUCTION MANUAL:**

- A. This shall include complete wiring diagrams for these systems, copies of the Functional Diagrams and the manufacturer's installation, operating and service information, including schematic diagrams, for each item of equipment furnished. Provide two (2) final copies. Use manufacturer's original equipment manuals.

### **23.04 EQUIPMENT LABELS:**

- A. All components in equipment rack are to be labeled as to their specific function in the complete system. All labels must be printed, using a commercial type label machine, on labels ½" wide and as long as necessary to accommodate letters or numbers.

### **23.05 RACK LAYOUT PLAN:**

- A. Mount one photographic copy of this diagram behind acrylic inside the front door of the main system equipment rack.



**24. TRAINING OF CLIENT'S PERSONNEL**

- A. Media Contractor shall provide up to Eight (8) hours of training for sound reinforcement system operators. Coordinate time and place for such training with Owners representative.

**GENERAL REQUIREMENTS**

**DESIGN AND CONSTRUCTION CRITERIA(REQUIREMENTS)  
FOR BUILDING 1100 CHAPEL**

**A. GENERAL REQUIREMENT**

- 1. The attached drawings indicate the required floor plan, elevations, and site plan required.

**B. DESIGN SUBMITTAL REQUIREMENT****1. STAGES OF DESIGN SUBMITTALS**

1.1 First Review Submittal – (60%) Mid-point: The review of this initial submittal is primarily to insure that contract documents are proceeding in a timely manner and that the design criteria is being correctly interpreted. The submittal shall consist of the following:

- 1. 60% complete drawings and specifications no later than 60 calendar days after award date.
  - 1. Six (6) copies – hardcopy of drawings
  - 2. Six (6) copies - hardcopy of specifications
  - 3. Six (6) copies – hardcopy of design analysis
  - 4. One (1) copy – CD – AutoCAD and Word format
- 2. Environmental permits, as required. Test for ground contamination with samples every 200 square feet.

2.1 Second Review Submittal – 100% Design: The review of this submittal is to insure that the design is in accordance with directions provided the Contractor during the design process. The Contractor shall submit the following documents for Final Design Review:

- 1. Six (6) copies – hardcopy of drawings
  - 2. Six (6) copies – hardcopy of specifications
  - 3. Six (6) copies – hardcopy of design analysis
  - 4. Six (6) copies – hardcopy of annotated 60% review comments
  - 5. One (1) copy – CD
- 2.1.1 The Design Analysis submitted for 100% Design Review shall be in its 100% complete. The Design Analysis shall include all backup material previously submitted and revised as necessary. All design calculations shall be included.

2.1.2 The Contract Drawings submitted for 100% Design Review shall include the drawings previously submitted that have been revised and completed as necessary. The Contractor is expected to have completed all of his coordination checks and have the drawings in a design complete condition. The drawings shall be complete at this time including the incorporation of any design review comments generated by the Preliminary design review. The drawings shall contain all the details necessary to assure a clear understanding of the work throughout construction. Shop drawings will not be considered as design drawings. All design shall be shown on design drawings prior to submittal of shop drawings.

2.1.3 The contractor may begin construction on portions of the work for which the Yuma Proving Ground has reviewed the 100% Design Submission and has determined satisfactory for purposes of beginning construction. The contracting Officer or the COR will notify the Contractor when the design is cleared for construction.

2.2 Third Review Submittal – Final Design: After the 100% Design Review, the comments generated during the 100% Design Review shall be incorporated in the Final Design Submittal. The contractor shall submit the following documents for the design complete submittal:

1. Six (6) copies – hardcopy of drawings
2. Six (6) copies – hardcopy of specifications
3. Six (6) copies – hardcopy of design analysis
4. Six (6) copies – hardcopy of annotated 100% review comments
5. Two (2) copies – CD of CADD, specification and design analysis files

2.3 At the end of Mid-point and 100% design review stages, a face to face meeting between the contractor and the Government is required. The meetings shall be held at YPG Building 308 2<sup>nd</sup> floor conference room. The purpose of the meetings is to review and coordinate the design effort and clarify design review-comments between designers and the Government. Design stage includes design submittals by the contractor and review and acceptance of the design by the Government.

3. **QUANTITY AND FORMAT OF DESIGN SUBMITTALS:** The contractor shall submit three (3) sets of full size drawings on size ARCH D (24"x36") sheets and three (3) half size drawings on size 11"x17" sheets with YPG title block, six (6) sets of design analysis on 8 ½"x 11" bond paper, and six (6) sets of specifications on 8 ½"x 11" bond paper for review for each review stages unless noted otherwise. The contractor shall also provide electronic copies of the design submittals on CD (2) at Final Design submittal. The drawings shall be generated in AutoCAD 2000 or later. The specification shall be Unified Facilities Guide Specifications (UFGS). Submittal specifications shall be in Microsoft Word format. All electronic media shall be submitted on CD's.

3.1 Design and as-built drawings shall be submitted prior to and upon completion of construction.

### **3.2 Required Specification Submittals**

Design submittals to include following specification sections from Unified Facilities Guide Specifications (UFGS). Design contractor is encouraged to use abbreviated specifications denoted as #####A.

0275A	Concrete Pavements for Small Projects
06200A	Finish Carpentry
07212N	Fiberglass Batt Insulation
07410N	Metal Roof and Wall panels
07142	Non Structural Metal Roofing
07611N	Standing Seam Roofing
08110	Steel Doors and Frames
09250	Gypsum Board

09310	Ceramic Tile
09510	Acoustical Ceiling
09900A	Paint General
10153	Toilet Partitions
10800	Toilet Accessories

#### 4. ABBREVIATIONS

<b>AATCC</b>	<b>American Association of Textile Chemists and Colorists</b>
<b>ADA</b>	<b>Americans with Disabilities Act</b>
ANSI	American National Standard Institute
ASTM	American Society for Testing and Materials
ASHRAE	American Society of Heating, Refrigerating, and Air Conditioning Engineers
AWWA	American Water Works Association
CABC	Council of American Building Officials
NAPHCC	National Association of Plumbing-Heating-Cooling Contractors
MSS	Manufacturers Standardization Society of the valve and fittings Industry
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
UFG	Unified Facilities Guide
IBC	International Building Code
AISC	American Institute of Steel Construction
COR	Contracting Officer Representative
CO	Contracting Officer

### C. DESIGN REQUIREMENT

#### A. General

##### DIVISION 1: GENERAL REQUIREMENTS

1. Contractor shall provide design drawings that are stamped and signed by a licensed structural engineer and an architect as well as other engineering disciplines. Drawings to include at minimum complete foundation design, roof framing plan, and any other structural details needed to construct the building such as shear wall panel sizes and locations, and locations of firestops.

2. The contractor shall provide all material submittal to the COR for review and approval.

3. Design data: Design of the building shall comply with the latest edition of the following codes and standards:

- International Building Code (IBC)
- International Plumbing Code (IPC)
- International Mechanical Code (IMC)
- American Concrete Institute (ACI) standards
- National Electric Code (NEC)
- Fire Protection Engineering for Facilities (UFC 3-600-01)
- DoD Minimum Antiterrorism Standards for Buildings (UFC 4-010-01).
- AISC Manual of Steel Construction
- ADA American Disability Act
- UFGS Uniform Federal Guide Specification
- Design: General Building Requirements (UFC 1-200-01)

4. Load data: Design of the buildings shall be based on the following loads:

Dead load: roof: 20 psf  
Live load: roof: 20 psf  
Seismic load: zone 4  
Wind load: 90 mph  
Snow load: not applicable  
Soil pressure: net allowable bearing capacity shall be as recommended by soil investigation report.

5. All materials used shall be asbestos and lead free.

## B. Civil

### DIVISION 2: SITEWORK

#### 1 Topographic Survey:

The contractor is responsible for all surveying work associated with this project. Surveying shall be accomplished by a registered professional surveyor in the state of Arizona.

#### 2 Geotechnical Support for Design

2.1. Design and construction shall be supported with appropriate geotechnical engineering. The Contractor shall secure the services of a competent and reputable Geotechnical Engineering consultant firm to provide the basis for design for foundations, pavements, utility earthwork, grading, and other geotechnical related items. The Geotechnical Engineering Firm shall prepare and submit a Final Geotechnical Report through the Contractor to the Government. The final Geotechnical Report shall be based on site-specific explorations (drill holes, cone penetration tests, and trenches) as well as field and laboratory testing as required. All field and laboratory work shall be conducted in accordance with appropriate ASTM Standards. The Contractor shall be notified of errors and/or incomplete work. Incomplete work is defined as not meeting the standards outlined herein. No additional compensation shall be forthcoming for the correction of errors or incomplete work.

#### 3 Earthwork:

3.1. General. During construction, minimize disturbed areas. Stockpile and protect excavated soils from wind and water erosion. Replace unsatisfactory materials with satisfactory borrow material as required. The construction site shall be graded and compacted to drain away from the building/structure. Elevation of the finished floor of the new building shall be a minimum of 12-inches higher than the surrounding area.

3.2. BORROW. The Contractor shall be responsible to provide borrow material at the Contractor's expense. There is an untested source of borrow material which the Contractor shall test for suitability. If the Contractor finds this material is acceptable to himself and the Contracting Officer, this material may be used. This borrow pit in question is located approximately 10 miles northeast of the project site and easily accessible via paved and unpaved roads. The Contractor shall find the most cost effective borrow site as approved by the Contracting officer.

#### 4 Backfill and Compaction

4.1. Utility trenches shall be backfilled at least six inches above the pipe with well-graded sand. The rest of the backfill shall be satisfactory material that is free of stones larger than ½" in any direction and shall be placed in layers not greater than 8-inch loose thickness. Compaction shall be to 95% per ASTM D 1557 and shall be tested every 50 feet or fraction thereof.

4.2. Sub-grade under building slabs, footings, and pavement shall be compacted to 95% per ASTM D 1557 and shall be tested for every 750 square feet or fraction thereof.

4.3. Sub-grade under sidewalks shall be compacted to 90% and shall be tested for every 750 square feet or fraction thereof.

## 5. Trenches

Water and sewer lines shall be backfilled to provide a minimum of 3'-6" cover. Direct burial cable and conduit or duct lines for communications and electrical systems shall have a minimum cover of three feet.

## 6. Marking tape

Plastic marking tape shall be installed above communications, electric, water, and sewer lines. Marking tape shall be acid and alkali-resistant polyethylene film at least six inches wide. The tape shall be able to be detected by a metal detector when buried up to three feet deep. Tape color shall be orange for communication lines, red for electric lines, blue for water pipes, and green for sewer pipes. Tape shall be printed with name of the specific utility. Tape shall be installed directly above the pipe, at a depth of 18 inches below finish grade.

## DIVISION 3: CONCRETE

1. All concrete shall have a minimum 3000-psi compressive strength at 28 days. Batch tickets shall be provided for each truck of concrete delivered. Slump shall be a minimum of 1 inch and a maximum of 3 inches and shall be determined per ASTM C 143. Compressive strength specimens 6 by 12 inch cylinders shall be fabricated by the Contractor and laboratory cured in accordance with ASTM C 31 and tested in accordance with ASTM C 39. Temperature of each batch shall be tested. Temperature of concrete shall not exceed 80 degrees F if the humidity is less than 40%, 85 degrees F if humidity is 40-60% or 90 degrees F if the humidity is greater than 60%. At least one set of test specimens shall be made for compressive strength on each different concrete mixture placed each day.

2. Mixed concrete shall be discharged within 90 minutes or before the mixer drum has revolved 300 revolutions, whichever comes first after the introduction of the mixing water to the cement and aggregates. When the concrete temperature exceeds 85 degrees F, then time shall be reduced to 45 minutes. Concrete shall be deposited as close as possible to its final position in the forms with no vertical drop greater than 5 feet. Immediately after placing, each layer of concrete shall be consolidated by internal vibrators, except for slabs 4 inches or less. Slabs 4 inches or less shall be consolidated with vibrating screeds. Grate tampers ("jitterbugs") shall not be used.

3. Fine and coarse aggregates shall conform to the quality and gradation requirements of ASTM C 33.

4. Concrete reinforcing shall conform to ASTM A615, grade 60.

## DIVISION 4: MASONRY

1. Brick exterior shall match existing brick in size, dimension, pattern, and color. Brick shall conform to ASTM C62.

## DIVISION 5: METALS

1. Interior walls shall be constructed with metal stud in accordance with the requirement of UFGS specification, lasted addition.

## C. Architectural

### DIVISION 6: WOODS AND PLASTICS

1. Veneer Plywood shall be light color wood (birch).

### DIVISION 7: THERMAL AND MOISTURE PROTECTION

#### 1. Insulation

1.1. Roofs shall have R-38 min batt insulation. Insulation shall be installed at the roofline. Insulation shall be properly attached to prevent sagging and obstruction of sprinklers and other mechanical equipment above the ceiling area.

1.2. Exterior wall shall have R-19 min batt insulation.

1.3. All interior metal stud walls shall include STC 50 acoustical rated batt insulation for sound attenuation.

#### 2. Roof

2.1 The roof shall be a Built-up roof. Details of the installation shall be provided by the roofing contractor.

2.2 Built-up Roof shall be 5ply plus rock. Patch sub-straight with like underlayment material. Built-up roof shall have a seamless integration from old to new.

2.3 Aggregate surfacing material shall be crushed stone, gravel conforming to ASTM D 1863. Aggregate shall match existing color, opaque, and size.

2.4 Cants shall be installed in the angles formed between the roof and walls or other vertical surfaces. Cants shall be continuous, and shall be installed in lengths as long as practicable.

2.5 Surfaces shall be smooth and free of moisture, dirt, projections, and foreign materials before applying roofing and flashing.

2.6 Stops shall be installed at roof edges, opening and vertical projection before application of roofing plies.

2.7 Aggregate surfacing shall be flood-coated uniformly with 60 pounds of hot asphalt per square. Aggregate surfacing material shall be spread at a rate 400 pounds per square.

3. Provide 20 year certificate of warranty against leaks and workmanship on roof assembly from roof manufacturer.

### DIVISION 8: DOORS AND WINDOWS

1. Doors

1.1. Exterior doors shall be 3'-0" x 6'-8" x 1 3/4" insulated metal with a narrow lite. Frames shall be continuously welded frame face at corner joints, painted, and shall be extra heavy duty (Grade III).

1.2. All interior doors shall be 3'-0" x 6'-8" x 1 3/4" hollow core metal doors. Frames shall be continuously welded frames at corner joints, painted, and shall be heavy duty (Grade II).

1.3. Door and frames shall be factory primed.

## **2. Door Hardware**

2.1. All hardware shall be Grade 1 in accordance with the appropriate BHMA standard.

2.2. Lock cylinders shall comply with BHMA A156.5. Lock cylinder shall have six pin key removable type cores. All keyed cylinders must be fully interchangeable with "best" removable core system. Cylinders shall be provided by the best lock corporation. Contractor shall provide the permanent cores and three blank keys for each lock. The contractor may install construction cores during construction. YPG personnel will key and install permanent cores furnished by the contractor, after acceptance of the buildings. Each building shall be supplied a key control storage box for a capacity of 20 keys.

2.3 All knobs shall be ADA compliant.

2.4. Hardware for exterior doors shall include extra-heavy duty stainless steel hinges, thresholds; door closers, kick plate, weatherstripping, and a lock with a 1" throw dead bolt. Panic hardware shall be provided as required by the codes listed in Division 1.

2.5. Restroom doors shall have closers, kick plates, push plates, and pull handles.

2.6. All doors with hinges for reverse bevel doors shall have nonremovable pins.

2.7. All doors shall be pre-drilled and installed with a minimum of three rubber silencers. Stick-on types are unacceptable.

2.8. All doors shall have floor-mounted doorstops.

## **DIVISION 9: FINISHES**

### **1. Gypsum Wallboard**

1.1. All interior walls shall be 5/8" impact resistant type "X" gypsum board unless otherwise noted and 6" above suspended ceiling.

### **2. Acoustical Ceilings**

2.1 All offices, communication rooms, break rooms, and hallways shall receive suspended acoustical ceiling tile. The suspension system shall conform to ASTM C 635 for intermediate duty system and shall be installed in accordance with ASTM C 636. Surfaces exposed to view shall be aluminum or steel with factory-applied white baked-enamel finish. Hangers and attachments shall be galvanized steel wire and shall be capable of supporting a minimum 300-pound ultimate vertical load. The ceiling attenuation class (CAC) shall be 40 or better when tested in accordance with ASTM E 1414. Hangers shall be plumb and shall not press against insulation covering ducts and pipes. Bracing shall be offset where hangers must be sloped or slanted around obstruction, the resulting horizontal force. Wall molding shall be provided where ceilings abut vertical surfaces. Wall molding shall be secured not more than 3 inches from ends of each of each length and not more than 16 inches on centers between end fastening. Acoustical units shall be installed so units less than one half width are minimized.

### 3. Painting

All exposed unfinished surfaces unless noted otherwise shall be painted per paint specifications.

### 4. Ceramic Tile

Restrooms shall have ceramic tile 2"x2" at floor and wainscoting at 5' ht. Color and pattern to be submitted for approval.

### 5. Acoustical System

5.1 The Sanctuary sound system shall provide sound reinforcement from, microphones located throughout the stage area, to all audience-seating positions in the sanctuary. A professional quality audio mixing console shall be provided. The primary source of reinforced sound shall be via a left/center/right speaker cluster arrangement mounted above and to the side of stage. The sound system shall also be capable of being used to provide background music. Sound effects sources shall include microphones, tape recorders, CD's, records, or any external source individually or in any combination. The system shall have two modes of operation:

Mode 1: Auto-mix operation requiring no operator attendance.

Mode 2: Full event production at control booth location.

5.2 Monitor loudspeakers with suitable amplifier power shall be provided on the stage.

5.3 The sound reinforcement equipment shall be submitted for approval of manufacture, type of equipment.

5.3 Provide for a complete and satisfactory operating sound reinforcement system for pickup, amplification, distribution, reproduction of voice and/or other program material. The system in the Sanctuary shall be capable of producing equal sound pressure levels to all seating while producing a full frequency range of music along with the spoken word and must be capable of delivering at least 90dB of continuous sound pressure level to the farthest listener in the room within + or - 2dB.

5.4 All equipment, except portable equipment, shall be held firmly in place. This shall include all loudspeakers and amplifiers. Fastening and supports shall be adequate to support their loads with a safety factor of 5.

5.5 All switches, amplifiers equipment shall be clearly, logically, and permanently marked.

5.6 All reference to manufacturer's supplier's model numbers and other pertinent information are to be supplied to establish minimum standards of performance, function, and quality.

5.7 Specified manufacturers shall be engaged in the manufacture of sound system equipment. The model numbers used are indicated by manufacturer, and constitute the quality and performance of the equipment to be furnished.

5.8 Equipment and materials shall be submitted for approval.

5.9 The responsibilities of the media contractor include but are not limited to: The supplying of total working system, the verification of completeness of the equipment, the verification of manufacturer's type numbers of the specified components including the manufacturer's current model change over where applicable; verification of overall suitability of the systems and their components to meet the functional and performance requirements, the finishing of additional equipment and power requirements that may be required to meet the functional requirements without claim for additional compensation.



5.10 Maintain a complete set of sound reinforcement system and multi-media system drawings and specifications at the site at all times during installation.

5.11 Supplying of all components, wiring and testing shall be the responsibility of the sound reinforcement/multi-media contractor.

5.12 Supply any incidental equipment need in order to meet the requirements stated even if not specified or shown on drawings, without claim for additional payment.

5.13 Verify correctness of parts list and equipment model numbers and conformance of each component with manufacturer's specifications.

5.14 In order to maintain a single point source for service and replacement parts, it is required that the special electronics system be supplied and installed by a single Media contractor, who is also the factory-authorized distributor for all the equipment being supplied.

5.17 Supplier shall have capabilities of responding to service calls with a factory trained technical representative within twenty-four hours. This supplier shall maintain an adequate local stock of all parts necessary for the repair of this equipment on hand at all times.

5.18 Model list are used to establish a standard of quality.

5.19 The media contractor shall hold a valid contractor's license.

5.20 The media contractor shall have minimum of five years experiences. He shall be thoroughly familiar with all the major lines of equipment he is supplying.

5.21 The media contractor shall have been trained in the science of system equalization either by a manufacturer who normally engages in training for system equalization or by a specialized organization such as Syn-Aud-Com. Provide satisfactory proof of such training.

5.22 The media contractor shall establish his ability to perform the performance testing by furnishing a list of acoustical survey equipment to be used identified by manufacturer, model and serial number. All test equipment shall be of standard, commercially available manufacture.

5.23 Media contractor shall furnish and install equipment, mounted at a main console location. Provide all necessary patch cable to complete the installation.

5.24 The video projection system shall be design in accordance with manufacturer's specification and submitted for approval.

5.25 Media contractor shall perform final system adjustments and acceptance test for each system. Final testing may include any measurements of frequency response, distortion, noise or other characteristic and any adjustments deemed necessary may be performed on any item or group of items including reorientation of loudspeakers, to insure optimum performance of the system.

#### DIVISION 10: SPECIALTIES

1. Metal toilet compartments shall be ADA complaint. Toilet compartments shall be floor mounted.

2. Urinal screens shall be ADA complaint.

DIVISION 11: EQUIPMENT

NOT USED

DIVISION 12: FURNISHINGS

1. Interior blinds shall be vertical. Color to be submitted for approval.
2. Alter shall be provided as required by the Chaplain for approval.

## D. Mechanical

DIVISION 15: MECHANICAL

1.GENERAL :

- 1.1. No asbestos or lead shall be used in any product on this project.
- 1.2. Contractor shall supply cut sheets of all equipment and materials specified in the specs.
- 1.3. Specifications and drawings shall be stamped by a registered mechanical engineer.

2 HVAC

- 2.1 Three copies of the O&M manuals shall be supplied at time of final walk through.
- 2.2 Work shall be performed in accordance with the manufacturer's published diagrams, and equipment warranty requirements.
- 2.3 Drawings shall consist of equipment layout including assembly and installation details and electrical connection diagrams; ductwork layout showing the location of all supports and hangers, typical hanger details, gauge reinforcement, reinforcement spacing rigidity classification, and static pressure and seal classifications; and piping layout showing the location of all guides and anchors, the load imposed on each support or anchor, and typical support details; equipment schedules, duct schedules, and register schedules. Drawing shall include any information required to demonstrate that the system has been coordinated and will properly function as a unit and shall show equipment relationship to other parts of the work, including clearances required for operation and maintenance.
- 2.4 Materials and equipment shall be standard products of a manufacturer regularly engaged in the manufacturing of such products. The standard products shall have been in satisfactory commercial or industrial use for 2 years prior to bid opening. All electrical work shall be in accordance with the National Electrical Code (NEC).
- 2.5 All HVAC systems shall be tested, adjusted, and balanced in accordance with AABC criteria. The TAB contractor shall be a member of AABC. Final report shall have schematic drawings showing each system component, including balancing devices. The setting of all HVAC adjustment devices and duct test ports shall be permanently marked. Contractor shall supply original plus two copies of the final report 10 working days after testing is complete.

- 2.6 Design: Heat gain and loss calculations for new air conditioning/heating units shall be, as a minimum, in accordance with the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Load Calculation methodology. The HVAC system shall comply also with UFC 3-410-01FA (Design: Heating, Ventilating, and Air Conditioning, dated May 15, 2003). The HVAC system control system shall comply with UFC 3-410-02A (Design: Heating, Ventilating and Air Conditioning (HVAC) Control Systems, dated May 15, 2003). HVAC system construction shall not proceed until HVAC final design has been reviewed by YPG Public Works Department.
- 2.7 Load Calculations. Computer generated load calculations for the new air conditioning/ heating units shall be performed. Computer-generated load calculations shall be provided, and shall include complete input and output summaries. Room air flow requirements shall be computed based on the sanctuary room load. The design shall be based on the heating and cooling loads as well as room airflow requirements computed for a chapel occupancy and the building orientation. Internal loads shall be included in the load calculations in accordance with ASHRAE recommendations for analysis corresponding to the specific occupancy at the site. Load calculations and other design documents shall be submitted and reviewed by YPG Public Works Department prior to commencing work on the HVAC system.
- 2.8 All heating and cooling equipment proposed and installed in this contract shall bear the Energy Star Label where applicable.
- 2.9 Equipment shall comply with the requirements of American National Standards Institute (ANSI), Air Conditioning and Refrigeration Institute (ARI), American Society for Testing and Material (ASTM), National Electric Manufacturers Association (NEMA), National Fire Protection Association (NFPA), Underwriters Laboratories, Inc. (UL) or other national trade associations as applicable. Testing, adjusting and balancing of HVAC system shall be accepted only after the required performance has been demonstrated.
- 2.10 Demolition and Replacement. The thermal performance of existing building walls shall not be lessened as a result of the demolition of old equipment and installation of new equipment building as described in this statement of work. The perimeter around each fan coil unit, which may be a source of air leakage, shall be caulked, gasketed, weather stripped or otherwise sealed.
- 2.11 Energy conservation as it relates to equipment operating costs will be considered in the evaluation process. Additional consideration in the technical evaluation will be given to designs which include higher than minimum efficiency equipment.
- 2.12 Heating and Cooling System. A total of 15 fan coil air conditioners (floor cabinet/ year round type) are to be installed in the chapel sanctuary to replace each of 15 units at each existing unit location. The new units shall match the existing units in color, basic shape and functionality. The systems shall be sized, installed and balanced to provide cooling and heat to meet or exceed the performance of the existing system. Fan coil units shall be the cooling and heating combination type. Refrigerant piping, valves, fittings, controls and accessories shall conform to the requirements of ASHRAE 15 and ASME B31.5. HVAC equipment shall be installed in minimum accordance with UFC 4-730-02 (Design: Chapels and Religious Education Facilities), dated January 16, 2004.
- 2.13 Acoustics. The noise level shall be limited and in accordance to UFC 4-730-02 (Design: Chapels and Religious Education Facilities, dated January 16, 2004 which states that the Preferred Noise Criterion (PNC) rating shall be a minimum of 20.
- 2.14 Provide 78 degrees F indoor air at 115 degrees F outside for summer temperatures and 68 degrees F indoor at 39 degrees F outside for winter. Design for the sanctuary shall be adequate to accommodate a room load of 300

people. The detailed load calculations are to be reviewed by YPG Public Works prior to approval of equipment installation.

### 3. PLUMBING

3.1 Plumbing shall be in accordance with the International Plumbing Code (IPC) 2003. Plumbing system shall also comply with UFC 3-420-01FA, Design: Plumbing, dated 15 May 2003 and UFC 4-730-02 (Design: Chapels and Religious Education Facilities), dated January 16, 2004.

## E. Electrical

### DIVISION 16: ELECTRICAL

1. Conformance to code. The electrical system shall be installed in compliance with the rules and recommendations of the National Electrical safety Code, NFPA 70, National Electric Code (NEC), and applicable model codes, whichever is more stringent.

2. Lighting in Fellowship Hall (room 135). Remove and dispose of 24 fluorescent fixtures, 4 recessed walkway lights, 2 exit lights, including all lamps. Leave existing switches and wiring in place for new lighting.

3. New Lighting Fixtures and Lamps. Install and wire 24 recessed 2 x 4 fluorescent troffer 4-lamp fixtures. Ballasts are to be high efficient electronic type, with lamps to be T8. Install and wire 4 recessed compact fluorescent downlight fixtures, with 26 watt compact horizontal fluorescent type lamps. Install and wire 2 LED stencil face exit signs, with red letters on a white background.

4. Existing Ceiling Grid. Ceiling tiles or components that need to be replaced with the new fixtures shall match existing components currently installed.

5. Rooms 125, 126. Install in each of the 2 rooms listed, a wall or ceiling mounted occupancy sensor. These sensors shall obtain power from an existing switch located in room 127. The occupancy sensors shall energize 2 duplex receptacles located in room 127. In room 127, install the duplex receptacles 7 feet above finished floor and provide a night light (2) for the receptacles that will indicate when rooms 125 or 126 are occupied.

6. Install in the new restroom (room 118), storage room (room 137), utility room (room 122) and entrance (room 133) 2x4 fluorescent, 4-lamp surface-mounted light fixtures with high efficient electronic ballasts, and T8 lamps. Rooms are to be switched with single-pole toggle switches and the hall lighting is to be controlled with three-way switches.

7. Install in the new restroom (room 118) a wall-mounted exhaust fan. It shall be switched separately from the bathroom surface-mounted lighting fixture.

8. Operating voltage for the lighting circuits, occupancy sensors and exhaust fan is 120 volts alternating current.

9. Media Contractor (audio and video equipment) will require additional duplex receptacles to be installed in the sanctuary for audio and video power requirements. Any costs associated with the additional duplex receptacles that will be installed shall be the responsibility of the Media Contractor.

\_\_ End of Section \_\_

Section E - INSPECTION AND ACCEPTANCE

CLAUSES INCORPORATED BY REFERENCE

52.246-12            Inspection of Construction

AUG 1996

Section F - DELIVERIES OR PERFORMANCE

CLAUSES INCORPORATED BY REFERENCE

52.242-14            Suspension of Work

APR 1984

Section G - CONTRACT ADMINISTRATION DATA

CLAUSES INCORPORATED BY FULL TEXT

INSTRUCTIONS TO PAYING OFFICE AND ADMINISTRATIVE CONTRACTING OFFICE

- a. The Contracting Office representative is:

Name: Erik Reta\_\_\_\_\_

Organization Code: SFCA-SR-YM\_\_\_\_\_

Telephone Area Code and Number: 928-328-6163\_\_\_\_\_

DSN: 899-6163\_\_\_\_\_

FAX: 928-328-6849; DSN 899-6849\_\_\_\_\_

Email: erik.reta@yuma.army.mil\_\_\_\_\_

- b. It is anticipated that payment to the contractor will be made by government credit card.

## Section H - SPECIAL CONTRACT REQUIREMENTS

### CLAUSES INCORPORATED BY FULL TEXT

#### H2. INSURANCE (Fixed Price Contract)

Pursuant to the requirements of the contract clause titled "Insurance-Work on a Government Installation", the contractor shall obtain and maintain at least the following kinds of insurance and minimum liability coverage during any period of contract performance:

a. Workmen's Compensation and occupational disease coverage as required by law except that, if this contract is to be performed in a state which does not require or permit private insurance, then compliance with the statutory or administrative requirements in any such state will be satisfactory. The required Workmen's Compensation Insurance shall extend to cover employers' liability for accidental bodily injury or death and for occupational disease with a minimum liability limit of \$100,000.

b. Comprehensive General Liability Insurance in the minimum limit of \$500,000 per occurrence for bodily injury liability.

c. Comprehensive Automotive Liability Insurance with minimum limits of \$200,000 per person and \$500,000 per occurrence for bodily injury, and a minimum limit of \$20,000 per occurrence for property damage.



## Section I - CONTRACT CLAUSES

## CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 2003
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	OCT 2003
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	JAN 2005
52.211-15	Defense Priority And Allocation Requirements	SEP 1990
52.215-2	Audit and Records--Negotiation	JUN 1999
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-11	Price Reduction for Defective Cost or Pricing Data--Modifications	OCT 1997
52.215-13	Subcontractor Cost or Pricing Data--Modifications	OCT 1997
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.219-14	Limitations On Subcontracting	DEC 1996
52.219-27	Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside	MAY 2004
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards Act - Overtime Compensation	SEP 2000
52.222-6	Davis Bacon Act	FEB 1995
52.222-7	Withholding of Funds	FEB 1988
52.222-8	Payrolls and Basic Records	FEB 1988
52.222-9	Apprentices and Trainees	FEB 1988
52.222-10	Compliance with Copeland Act Requirements	FEB 1988
52.222-11	Subcontracts (Labor Standards)	FEB 1988
52.222-12	Contract Termination-Debarment	FEB 1988
52.222-13	Compliance with Davis-Bacon and Related Act Regulations.	FEB 1988
52.222-14	Disputes Concerning Labor Standards	FEB 1988
52.222-15	Certification of Eligibility	FEB 1988
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	APR 2002
52.222-27	Affirmative Action Compliance Requirements for Construction	FEB 1999
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	DEC 2001
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	DEC 2001
52.222-39	Notification of Employee Rights Concerning Payment of Union Dues or Fees	DEC 2004
52.223-5	Pollution Prevention and Right-to-Know Information	AUG 2003

52.223-6	Drug-Free Workplace	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-13	Restrictions on Certain Foreign Purchases	DEC 2003
52.227-1	Authorization and Consent	JUL 1995
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	AUG 1996
52.227-4	Patent Indemnity-Construction Contracts	APR 1984
52.228-2	Additional Bond Security	OCT 1997
52.228-5	Insurance - Work On A Government Installation	JAN 1997
52.228-11	Pledges Of Assets	FEB 1992
52.228-12	Prospective Subcontractor Requests for Bonds	OCT 1995
52.228-14	Irrevocable Letter of Credit	DEC 1999
52.228-15	Performance and Payment Bonds--Construction	JUL 2000
52.229-3	Federal, State And Local Taxes	APR 2003
52.232-5	Payments under Fixed-Price Construction Contracts	SEP 2002
52.232-17	Interest	JUN 1996
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-27	Prompt Payment for Construction Contracts	OCT 2003
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.232-36	Payment by Third Party	MAY 1999
52.233-1	Disputes	JUL 2002
52.233-3	Protest After Award	AUG 1996
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.236-2	Differing Site Conditions	APR 1984
52.236-3	Site Investigation and Conditions Affecting the Work	APR 1984
52.236-5	Material and Workmanship	APR 1984
52.236-6	Superintendence by the Contractor	APR 1984
52.236-7	Permits and Responsibilities	NOV 1991
52.236-8	Other Contracts	APR 1984
52.236-9	Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements	APR 1984
52.236-10	Operations and Storage Areas	APR 1984
52.236-11	Use and Possession Prior to Completion	APR 1984
52.236-12	Cleaning Up	APR 1984
52.236-13	Accident Prevention	NOV 1991
52.236-14	Availability and Use of Utility Services	APR 1984
52.236-15	Schedules for Construction Contracts	APR 1984
52.236-17	Layout of Work	APR 1984
52.236-21 Alt I	Specifications and Drawings for Construction (Feb 97) - Alternate I	APR 1984
52.236-26	Preconstruction Conference	FEB 1995
52.242-13	Bankruptcy	JUL 1995
52.243-4	Changes	AUG 1987
52.246-21	Warranty of Construction	MAR 1994
52.248-3	Value Engineering-Construction	FEB 2000
52.249-2 Alt I	Termination for Convenience of the Government (Fixed-Price) (May 2004) - Alternate I	SEP 1996
52.249-10	Default (Fixed-Price Construction)	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2004
252.204-7003	Control Of Government Personnel Work Product	APR 1992

252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	NOV 2003
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	MAR 1998
252.215-7000	Pricing Adjustments	DEC 1991
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7012	Preference For Certain Domestic Commodities	JUN 2004
252.227-7033	Rights in Shop Drawings	APR 1966
252.236-7000	Modification Proposals-Price Breakdown	DEC 1991
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.247-7024	Notification Of Transportation Of Supplies By Sea	MAR 2000

#### CLAUSES INCORPORATED BY FULL TEXT

##### 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within **10** calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than **180 days after issuance of notice to proceed**. The time stated for completion shall include final cleanup of the premises.

\*The Contracting Officer shall specify either a number of days after the date the contractor receives the notice to proceed, or a calendar date.

(End of clause)

##### 52.225-9 BUY AMERICAN ACT—CONSTRUCTION MATERIALS (JAN 2005)

(a) Definitions. As used in this clause--

Component means an article, material, or supply incorporated directly into a construction material.

Construction material means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

Cost of components means--

(1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

(2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the

manufacture of the construction material.

Domestic construction material means--

- (1) An unmanufactured construction material mined or produced in the United States; or
- (2) A construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic.

Foreign construction material means a construction material other than a domestic construction material.

United States means the 50 States, the District of Columbia, and outlying areas.

(b) Domestic preference. (1) This clause implements the Buy American Act (41 U.S.C. 10a-10d) by providing a preference for domestic construction material. The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.

(2) This requirement does not apply to the construction material or components listed by the Government as follows: [Contracting Officer to list applicable excepted materials or indicate "none"]

(3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that

(i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American Act is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;

(ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or

(iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) Request for determination of inapplicability of the Buy American Act. (1)(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including--

(A) A description of the foreign and domestic construction materials;

(B) Unit of measure;

(C) Quantity;

(D) Price;

(E) Time of delivery or availability;

(F) Location of the construction project;

(G) Name and address of the proposed supplier; and

(H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

(ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American Act applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American Act applies, use of foreign construction material is noncompliant with the Buy American Act.

(d) Data. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) \1\
Item 1			
Foreign construction material....	.....	.....	.....
Domestic construction material...	.....	.....	.....
Item 2			
Foreign construction material....	.....	.....	.....
Domestic construction material...	.....	.....	.....

Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).

List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.

Include other applicable supporting information.

(End of clause)

52.228-1 BID GUARANTEE (SEP 1996)

(a) Failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids, may be cause for rejection of the bid.

(b) The bidder shall furnish a bid guarantee in the form of a firm commitment, e.g., bid bond supported by good and sufficient surety or sureties acceptable to the Government, postal money order, certified check, cashier's check, irrevocable letter of credit, or, under Treasury Department regulations, certain bonds or notes of the United States.

The Contracting Officer will return bid guarantees, other than bid bonds, (1) to unsuccessful bidders as soon as practicable after the opening of bids, and (2) to the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted.-

(c) The amount of the bid guarantee shall be 20% percent of the bid price or \$100,000, whichever is less.-

(d) If the successful bidder, upon acceptance of its bid by the Government within the period specified for acceptance, fails to execute all contractual documents or furnish executed bond(s) within 10 days after receipt of the forms by the bidder, the Contracting Officer may terminate the contract for default.-

(e) In the event the contract is terminated for default, the bidder is liable for any cost of acquiring the work that exceeds the amount of its bid, and the bid guarantee is available to offset the difference.

(End of clause)

#### 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil/Vffar1.htm>

(End of clause)

#### 252.236-7001 CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS (AUG 2000)

(a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall--

- (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work;
- (3) Promptly notify the Contracting Officer of any discrepancies;
- (4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and
- (5) Reproduce and print contract drawings and specifications as needed.

(c) In general--

- (1) Large-scale drawings shall govern small-scale drawings; and
- (2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

Title	File	Drawing No.
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(End of clause)

#### 252.247-7023 Transportation of Supplies by Sea (MAY 2002)

(a) Definitions. As used in this clause --

(1) "Components" means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

(2) "Department of Defense" (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

(3) "Foreign flag vessel" means any vessel that is not a U.S.-flag vessel.

(4) "Ocean transportation" means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

(5) "Subcontractor" means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract.

(6) "Supplies" means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

(i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

(ii) "Supplies" includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

(7) "U.S.-flag vessel" means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

(b)(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.

(2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if--

(i) This contract is a construction contract; or

(ii) The supplies being transported are--

(A) Noncommercial items; or

## (B) Commercial items that--

(1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it contracts for f.o.b. destination shipment);

(2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that --

(1) U.S.-flag vessels are not available for timely shipment;

(2) The freight charges are inordinately excessive or unreasonable; or

(3) Freight charges are higher than charges to private persons for transportation of like goods.

(d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum --

(1) Type, weight, and cube of cargo;

(2) Required shipping date;

(3) Special handling and discharge requirements;

(4) Loading and discharge points;

(5) Name of shipper and consignee;

(6) Prime contract number; and

(7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.

(e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Maritime Administration, Office of Cargo Preference, U.S. Department of Transportation, 400 Seventh Street SW., Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information:

(1) Prime contract number;

(2) Name of vessel;

(3) Vessel flag of registry;

(4) Date of loading;



(5) Port of loading;

(6) Port of final discharge;

(7) Description of commodity;

(8) Gross weight in pounds and cubic feet if available;

(9) Total ocean freight in U.S. dollars; and

(10) Name of the steamship company.

(f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

(1) No ocean transportation was used in the performance of this contract;

(2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;

(3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM DESCRIPTION	CONTRACT LINE ITEMS	QUANTITY
_____	_____	_____
_____	_____	_____
_____	_____	_____
TOTAL	_____	_____

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

(1) The Contractor shall insert the substance of this clause, including this paragraph (h), in subcontracts that exceed the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

(2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in part 2 of the Federal Acquisition Regulation.

(End of clause)

Section J - LIST OF ATTACHMENTS

LIST OF ATTACHMENTS  
LIST OF ATTACHMENTS

Attachment No.	Title	Number of Pages
-	General Wage Decision	5

Technical Exhibit

Drawings consist of:

T1	Title page/ General information	1
C1	Site Plan	1
A1	DEMO	1
A2	FLOOR PLAN	1
A3	SECTION	1
A4	ROOF PLAN	1
E1	ELECTRICAL	1

## Section K - REPS &amp; CERTS AND OTHER STATEMENTS OF OFFERORS

## CLAUSES INCORPORATED BY REFERENCE

52.203-11	Certification And Disclosure Regarding Payments To Influence Certain Federal Transactions	APR 1991
52.222-38	Compliance With Veterans' Employment Reporting Requirements	DEC 2001
252.225-7031	Secondary Arab Boycott Of Israel	APR 2003
252.247-7022	Representation Of Extent Of Transportation Of Supplies By Sea	AUG 1992

## CLAUSES INCORPORATED BY FULL TEXT

## 52.203-2 CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (APR 1985)

(a) The offeror certifies that --

(1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to --

(i) Those prices,

(ii) The intention to submit an offer, or

(iii) The methods of factors used to calculate the prices offered:

(2) The prices in this offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law; and

(3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

(b) Each signature on the offer is considered to be a certification by the signatory that the signatory --

(1) Is the person in the offeror's organization responsible for determining the prices offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) of this provision; or

(2) (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) of this provision \_\_\_\_\_ (insert full name of person(s) in the offeror's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the offeror's organization);

(ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and

(iii) As an agent, has not personally participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) of this provision.

(c) If the offeror deletes or modifies subparagraph (a)(2) of this provision, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of the disclosure.

(End of clause)

#### 52.209-5 CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (DEC 2001)

(a)(1) The Offeror certifies, to the best of its knowledge and belief, that-

(i) The Offeror and/or any of its Principals-

(A) Are ( ) are not ( ) presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(B) Have ( ) have not ( ), within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and

(C) Are ( ) are not ( ) presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in paragraph (a)(1)(i)(B) of this provision.

(ii) The Offeror has ( ) has not ( ), within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency.

(2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions).

This Certification Concerns a Matter Within the Jurisdiction of an Agency of the United States and the Making of a False, Fictitious, or Fraudulent Certification May Render the Maker Subject to Prosecution Under Section 1001, Title 18, United States Code.

(b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

(c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by the Contracting Officer may render the Offeror nonresponsible.

(d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

(e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification,

in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

(End of provision)

#### 52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 2004) - ALTERNATE I (APR 2002)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is ( ) (insert NAICS code).

(2) The small business size standard is ( ) (insert size standard).

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) Representations. (1) The offeror represents as part of its offer that it ( ) is, ( ) is not a small business concern.

(2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it ( ) is, ( ) is not a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it ( ) is, ( ) is not a women-owned small business concern.

(4) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it ( ) is, ( ) is not a veteran-owned small business concern.

(5) (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.) The offeror represents as part of its offer that it ( ) is, ( ) is not a service-disabled veteran-owned small business concern.

(6) [Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.] The offeror represents, as part of its offer, that--

(i) It ( ) is, ( ) is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It ( ) is, ( ) is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. (The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture:\_\_\_\_\_.) Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(7) (Complete if offeror represented itself as disadvantaged in paragraph (b)(2) of this provision.) The offeror shall check the category in which its ownership falls:

\_\_\_\_ Black American.

\_\_\_\_ Hispanic American.

\_\_\_\_ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

\_\_\_\_ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

\_\_\_\_ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

\_\_\_\_ Individual/concern, other than one of the preceding.

(c) Definitions. As used in this provision--

Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern," means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern," means a small business concern --

(1) That is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; or

(2) Whose management and daily business operations are controlled by one or more women.

(d) Notice.

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

(i) Be punished by imposition of fine, imprisonment, or both;

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

#### 52.219-19 SMALL BUSINESS CONCERN REPRESENTATION FOR THE SMALL BUSINESS COMPETITIVENESS DEMONSTRATION PROGRAM (OCT 2000)

(a) Definition.

"Emerging small business" as used in this solicitation, means a small business concern whose size is no greater than 50 percent of the numerical size standard applicable to the North American Industry Classification System (NAICS) code assigned to a contracting opportunity.

(b) [Complete only if the Offeror has represented itself under the provision at 52.219-1 as a small business concern under the size standards of this solicitation.] The Offeror [ ] is, [ ] is not an emerging small business.

(c) (Complete only if the Offeror is a small business or an emerging small business, indicating its size range.)

Offeror's number of employees for the past 12 months (check this column if size standard stated in solicitation is expressed in terms of number of employees) or Offeror's average annual gross revenue for the last 3 fiscal years (check this column if size standard stated in solicitation is expressed in terms of annual receipts). (Check one of the following.)

No. of Employees    Avg. Annual Gross Revenues

\_\_\_\_ 50 or fewer    \_\_\_\_ \$1 million or less

\_\_\_\_ 51 - 100    \_\_\_\_ \$1,000,001 - \$2 million

\_\_\_\_ 101 - 250    \_\_\_\_ \$2,000,001 - \$3.5 million

\_\_\_\_ 251 - 500    \_\_\_\_ \$3,500,001 - \$5 million

\_\_\_\_ 501 - 750    \_\_\_\_ \$5,000,001 - \$10 million

\_\_\_\_ 751 - 1,000    \_\_\_\_ \$10,000,001 - \$17 million

\_\_\_\_ Over 1,000    \_\_\_\_ Over \$17 million

(End of provision)

#### 52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) ☐ It has, ☐ has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) ☐ It has, ☐ has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

#### 52.223-13 CERTIFICATION OF TOXIC CHEMICAL RELEASE REPORTING (AUG 2003)

(a) Executive Order 13148, of April 21, 2000, Greening the Government through Leadership in Environmental Management, requires submission of this certification as a prerequisite for contract award.

(b) By signing this offer, the offeror certifies that--

(1) As the owner or operator of facilities that will be used in the performance of this contract that are subject to the filing and reporting requirements described in section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11023) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13106), the offeror will file and continue to file for such facilities for the life of the contract the Toxic Chemical Release Inventory Form (Form R) as described in sections 313(a) and (g) of EPCRA and section 6607 of PPA; or

(2) None of its owned or operated facilities to be used in the performance of this contract is subject to the Form R filing and reporting requirements because each such facility is exempt for at least one of the following reasons:  
(Check each block that is applicable.)

☐ (i) The facility does not manufacture, process, or otherwise use any toxic chemicals listed in 40 CFR 372.65;

☐ (ii) The facility does not have 10 or more full-time employees as specified in section 313.(b)(1)(A) of EPCRA 42 U.S.C. 11023(b)(1)(A);

☐ (iii) The facility does not meet the reporting thresholds of toxic chemicals established under section 313(f) of EPCRA, 42 U.S.C. 11023(f) (including the alternate thresholds at 40 CFR 372.27, provided an appropriate certification form has been filed with EPA);

☐ (iv) The facility does not fall within the following Standard Industrial Classification (SIC) codes or their corresponding North American Industry Classification System sectors:

(A) Major group code 10 (except 1011, 1081, and 1094.

(B) Major group code 12 (except 1241).

(C) Major group codes 20 through 39.



(D) Industry code 4911, 4931, or 4939 (limited to facilities that combust coal and/or oil for the purpose of generating power for distribution in commerce).

(E) Industry code 4953 (limited to facilities regulated under the Resource Conservation and Recovery Act, Subtitle C (42 U.S.C. 6921, et seq.), 5169, 5171, or 7389 (limited to facilities primarily engaged in solvent recovery services on a contract or fee basis); or

( ) (v) The facility is not located within the United States or its outlying areas.

(End of clause)

#### 252.209-7001 DISCLOSURE OF OWNERSHIP OR CONTROL BY THE GOVERNMENT OF A TERRORIST COUNTRY (SEP 2004)

(a) "Definitions."

As used in this provision --

(a) "Government of a terrorist country" includes the state and the government of a terrorist country, as well as any political subdivision, agency, or instrumentality thereof.

(2) "Terrorist country" means a country determined by the Secretary of State, under section 6(j)(1)(A) of the Export Administration Act of 1979 (50 U.S.C. App. 2405(j)(i)(A)), to be a country the government of which has repeatedly provided support for such acts of international terrorism. As of the date of this provision, terrorist countries subject to this provision include: Cuba, Iran, Libya, North Korea, Sudan, and Syria.

(3) "Significant interest" means --

(i) Ownership of or beneficial interest in 5 percent or more of the firm's or subsidiary's securities. Beneficial interest includes holding 5 percent or more of any class of the firm's securities in "nominee shares," "street names," or some other method of holding securities that does not disclose the beneficial owner;

(ii) Holding a management position in the firm, such as a director or officer;

(iii) Ability to control or influence the election, appointment, or tenure of directors or officers in the firm;

(iv) Ownership of 10 percent or more of the assets of a firm such as equipment, buildings, real estate, or other tangible assets of the firm; or

(v) Holding 50 percent or more of the indebtedness of a firm.

(b) "Prohibition on award."

In accordance with 10 U.S.C. 2327, no contract may be awarded to a firm or a subsidiary of a firm if the government of a terrorist country has a significant interest in the firm or subsidiary or, in the case of a subsidiary, the firm that owns the subsidiary, unless a waiver is granted by the Secretary of Defense.

(c) "Disclosure."

If the government of a terrorist country has a significant interest in the Offeror or a subsidiary of the Offeror, the Offeror shall disclose such interest in an attachment to its offer. If the Offeror is a subsidiary, it shall also disclose

any significant interest the government of a terrorist country has in any firm that owns or controls the subsidiary.  
The disclosure shall include --

- (1) Identification of each government holding a significant interest; and
- (2) A description of the significant interest held by each government.

(End of provision)

## Section L - INSTRUCTIONS, CONDITIONS &amp; NOTICES TO OFFERORS

PROPOSAL

- You shall submit your proposal in accordance with the closing date established
- Your proposal shall remain valid for a period of 60 days from the solicitation closing date unless you insert a different period on the SF 1442.
- Your proposal will consist of the following:

- i) Volume I-Technical/Management—Original + 5 copies (if submitted in hard copy)
- ii) Volume II-Past and Present Performance Proposal—Original + 2 copies (if submitted in hard copy)
- iii) Volume III-Completed SF 1442, Section B Pricing Schedule and all required certifications in Section K.

It is desired that proposal information be submitted electronically. If you do not have the capability, you may submit your proposal hard copy to the issue address in Block 7 of the SF 1442. Proposal may be e-mailed to [erik.reta@yuma.army.mil](mailto:erik.reta@yuma.army.mil)

- Content of Proposals:

1) Volume I-Technical/Management Proposal—The Technical Proposal shall fully address each of the technical sub-factors states in Section M Evaluation Factors for Award.

2) Volume II-Past and Present Performance Proposal—You shall provide the following information on at least five (5) previous contract for related projects within the last three (3) years. You shall provide points of contact and phone numbers for each of the projects submitted along with the following:

- Contract/Project Number
- Contract Type
- Awarded Price/Estimated Price
- Final Price
- Period of Performance
- The Government Contracting activity or commercial entity, point of contact, address and telephone number
- A technical representative for the activity name address and telephone number
- A brief description of the project, including an explanation of how the effort is similar to our requirement
- Summaries of any contract problem, i.e., cure notices, terminations, etc.

3) Volume III-Pricing Proposal. A duly authorized officer of your company will sign a complete Section B along with representations and certifications required in Section K.

## CLAUSES INCORPORATED BY REFERENCE

52.215-1	Instructions to Offerors--Competitive Acquisition	JAN 2004
52.222-5	Davis Bacon - Secondary Site of Work	JUL 2005
52.236-28	Preparation of Proposals--Construction	OCT 1997

## CLAUSES INCORPORATED BY FULL TEXT

## 52.211-14 NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be DX rated order; **X** DO rated order certified for national defense use under the Defense Priorities and Allocations System (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation. [Contracting Officer check appropriate box.]

(End of provision)

## 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a firm fixed-price contract resulting from this solicitation.

(End of clause)

## 52.222-23 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR CONSTRUCTION (FEB 1999)

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation for each trade	Goals for female participation for each trade
[19.6%]	[6.9%]

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the --

- (1) Name, address, and telephone number of the subcontractor;
- (2) Employer's identification number of the subcontractor;
- (3) Estimated dollar amount of the subcontract;
- (4) Estimated starting and completion dates of the subcontract; and
- (5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is  
**Yuma County Arizona**

(End of provision)

#### 52.233-2 SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from Cynthia Ann Ford, Contracting Officer, 301 C. Street, SFCA-SR-YM Bldg 2100 Room 1 Yuma, Az 85365-9498. (Contracting Officer designate the official or location where a protest may be served on the Contracting Officer.)

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of provision)

#### 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995) – ALTERNATE I (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) An organized site visit has been scheduled for--  
 1:00pm 11 August 2005

(c) Participants will meet at--  
 Directorate of Contracting, Bldg 2100 Yuma Proving Ground AZ.

(End of provision)

## 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://farsite.hill.af.mil/Vffar1.htm>

(End of provision)

## AC52.223-4000 NOTICE TO OFFERORS – USE OF CLASS I OZONE-DEPLETING SUBSTANCES

- a. In accordance with Section 326 of P.L. 102-484, the Government is prohibited from awarding any contract which includes a specification or standard that requires the use of a Class I ozone-depleting substance (ODS) identified in Section 602(a) of the clean Air Act (42 U.S.C. 767a(a)), or that can be met only through the use of such a substance unless such use has been approved, on an individual basis, by a senior acquisition official who determines that there is no suitable substitute available.
- b. To comply with this statute, the Government has conducted a best efforts screening of the specifications and standards associated with this acquisition to determine whether they contain any ODS requirements. To the extent that ODS requirements were revealed by this review, they are identified in Section C or the statement of work of this document.
- c. If offerors possess any special knowledge about any other OSD required directly or indirectly at any level of contract performance, the U.S. Army would appreciate if such information was surfaced to the Contracting Officer for appropriate action. To preclude delay to the procurement, offerors should provide any information as soon as possible after release of the solicitation and prior to the submission of offers to the extent practicable. It should be understood that there is no obligation on offerors to comply with this request and that no compensation can be provided for doing so.

## MAGNITUDE OF CONSTRUCTION PROJECT

The magnitude of this construction project is estimated between \$250,000 and \$500,000.

L.33.9000  
(Full Text)

## Army Contracting Agency Executive Level Agency Protest Program

(a) This contract is eligible for the HQ, Army Contracting Agency (ACA) Executive-Level Agency Protest (ELAP) program, as an alternative to the usual provisions applicable for Agency protests under FAR 33.103. An ELAP is a "PROTEST TO THE AGENCY", within the meaning of FAR 33.103. The ELAP is intended to encourage interested parties to seek resolution of their concerns within ACA, rather than filing a protest with the General Accounting Office (GAO) or other external forum. After an

interested party files an ELAP protest on an ACA procurement to HQ, ACA and while that protest is pending, the protester agrees not to file a protest with the GAO or other external forum. If a protest is filed with an external forum on the same solicitation as the ACA ELAP protest, the ACA, ELAP protest will be dismissed. A party wishing to file an agency protest may either file a normal agency protest where the resolution is made at the contracting officer's level; or, in the alternative, file an ELAP protest, where resolution is made at HQ, ACA.

(b) An interested party may file a written protest to the agency under the Executive-Level Agency Protest program for contract solicitations arising and performed within the continental United States. Such Executive-Level Agency protests are limited to objections to any of the following:

(i) A solicitation or other request by an agency for offers for a contract for the procurement of property or services.

(ii) The cancellation of the solicitation or other request.

(iii) An award or proposed award of the contract.

(iv) A termination or cancellation of an award of the contract, if written objection contains an allegation that the termination or cancellation is based in whole or in part on improprieties concerning the award of the contract.

© Voluntary Automatic Stay. This clause describes the circumstances under which the ACA voluntarily agrees to stay performance of a contract in consideration of a decision by interested party to file an Army Contracting Agency (ACA) Executive Level Agency Protest (ELAP), as permitted by FAR 33.103(f)(4).

(1) In standard post-award agency protest, the agency must not proceed with Contract performance, pending resolution of the protest. This known as an "automatic stay" and it mirrors the stay required under a timely post-award protest to the General Accounting Office (GAO) under 31 U.S. Code 3553© and FAR 33.104©(a "Competition in Contracting Act (CICA) Stay"). However, if the agency determines that performance must proceed, based upon the criteria set forth in FAR 33.103(f)(1), the automatic stay may be overridden. This is known as an automatic stay "override".

(2) The CICA stay applies only if the GAO protest is filed within 10 days from notice of award, or within 5 days of a required debriefing. A firm may file an agency protest and, if it is dissatisfied with the agency's protest decision, may wish to file a follow-on GAO protest. Under normal circumstances, a protester that goes to the GAO after receiving an adverse agency decision will find that the GAO may take jurisdiction and actually render a recommendation but that the CICA Stay no longer applies.

L.33-9000 (continued)

(3) The ACA voluntarily agrees to stay performance of a contract when an interested party files a timely protest under ELAP Program. Should the interested party disagree with the ACA's resolution of an ELAP protest, it may utilize another protest forum without prejudice. The ELAP Voluntary Automatic Stay extends the protester's right to preserve the status quo pending resolution of all protests with respect to a particular contract action. In return for the protester's initially filing its protest as an ELAP instead of with the GAO, the contracting officer agrees that, if the protester ultimately disagrees with the ELAP decision and files a GAO protest, the agency will agree not to proceed with performance just as it would have done if the protester had filed its protest with the GAO right from the start. This means that in an ELAP protest, the agency may override the stay under the same standards and

circumstances as would have applied if the protest had originally been filed with the GAO, or to seek other relief related to the action.

(d) An Executive-Level Agency protest may be filed with the Contracting Officer designated in paragraph (g) of this clause for resolution of protests, or, with the ACA Chief Counsel at HQ, ACA at, 5100 Leesburg Pike, Suite 302, Falls Church, VA 22041-3201.

(e) For the purpose of filing an ELAP protest, an interested party means an actual or prospective bidder or offeror whose direct economic interest would be affected by the award of a contract or by the failure to award a contract. The ACA Chief Counsel is the ELAP Protest Decision Authority.

(f) An ELAP protest must include the protester's name, address and telephone number, including fax number; the solicitation or contract number, identity of the contracting activity and the contracting officer's name; a detailed statement of all legal and factual grounds for protest (mere disagreement with the decisions of contracting officer's does not constitute grounds for protest), including copies of all relevant documents; a request for a ruling; and, a request for relief. All protest must be signed by an authorized representative of the protester and must state it is an ACA Executive-Level Agency Protest.

(g) Executive-Level Agency Protests, as defined in FAR 33.101, may be served on the Contracting Officer (address as follows) by obtaining written and dated acknowledgement of receipt from Cynthia Ann Ford 301 C. Street, SFCA-SR-YM Bldg 2100 Room 1 Yuma, Az 85365-9498 .  
[Contracting Officer designate the official or location where protest may be served on the Contracting Officer]



## Section M - EVALUATION FACTORS FOR AWARD

### BASIS FOR AWARD

#### M.1—Basis for Award

The Government will make award to the responsible contractor whose offer conforms to the solicitation and is determined to be the most advantageous to the Government considering price and non-price factors as stated herein. Proposals will be evaluated on the following non-price factors. Accordingly, the Government reserves the right to award to other than the low offeror based on the following criteria:

Past Performance  
Technical/Management  
Schedule

Past Performance and Technical/Management are equal. They are also significantly more important than cost.

#### M.2—Evaluation Approach

a. General-Careful, full and impartial consideration will be given to all proposals received in response to this solicitation. Final evaluation of the technical/management merit will be based on a color-coding system with narrative support. The performance risk and cost analyses will receive narrative ratings. The objective of the evaluation is to determine which proposals offer the best overall value to the Government in the performance of this contract.

b. Procedures. Each offeror is required to submit a proposal consisting of technical volume, past performance volume and a cost proposal volume. The proposals will be evaluated in accordance with the evaluation criteria set forth below. We anticipate award to be made without discussions. However, any discussions deemed necessary by the Contracting Officer may be conducted, final evaluation completed and award will be made to the offeror that represent the best value for the Government.

c. Source Selection Evaluation—Proposal will be evaluated by the following:

The Proposal Evaluation Board (PEB) will evaluate the technical/management proposals in accordance with the criteria below.

The Performance Risk Assessment Group will evaluate past performance information

The contracting Officer has the responsibility of determining fair and reasonable prices of the proposals.

d. Evaluation. In this solicitation, past performance and technical/management are equal and together they are far more important than cost. The award decision will take the results from the evaluations and the relative price into consideration to determine the final awardee. Unreasonable costs or a history of poor performance can make the most meritorious technical proposal not the best value; further, as non-price factor evaluation tend to equalize, cost difference become more significant.

#### M.3—Evaluation Factors and Sub-Factors

The evaluation factors for this requirement are Past Performance, Technical/Management and Cost. Each evaluation factor is further discussed below.

a. Technical/Management: Technical/Management will be evaluated in accordance with the subfactors cited below using the following color code.

**Purple:** A comprehensive and thorough proposal that significantly exceeds in all aspects the standard for evaluation; very high probability for success; no deficiencies or weaknesses exist.

**Green:** A proposal that demonstrates competence and exceeds in one or more major areas of the standard for evaluation; high probability of success; no significant deficiencies and only minor correctable weaknesses exist.

**Blue:** A proposal that meets in all aspect the standard for evaluation; good probability of success; no significant deficiencies and any weaknesses can be readily corrected.

**Yellow:** A proposal that fails to meet one or more aspects of the standard for evaluation; proposal has a low probability of success. Major deficiencies and/or significant number of weaknesses that may be improved or corrected through discussions.

**Red:** A proposal that fails to meet the minimum requirement of the standard for evaluation; proposal needs major revision to make it acceptable.

Technical/Management proposals must respond to the following three (3) sub-factors. Standards for the blue, or “met”, levels are provided with each sub-factor. The sub-factors are of equal importance.

**Sub-Factor 1: COMPANY EXPERIENCE**—To obtain a blue rating, the proposal must demonstrate that you and any proposed sub-contractor(s) have a minimum of three (3) years of experience with similar design and renovation efforts **or** evidence of successful completion of three recent similar projects. The proposal must also demonstrate your full understanding of the appropriate construction sequence for this type of project.

**Sub-Factor 2: JOB SUPERINTENDENT**—In order to receive a blue rating, the proposal must demonstrate that your proposed on-site superintendent has a minimum of five (5) years supervision experience in managing similar design and renovation efforts. The proposal must demonstrate that the proposed on-site superintendent fully understands the appropriate construction sequence for the type of design and renovations of a religious facility. Resumes with references are required to demonstrate qualifications.

**Sub-Factor 3: PROJECT SCHEDULE**—In order to receive a blue rating, the proposed detailed work schedule must demonstrate a thorough understanding of the project to include coordination of the trades and reasonable plan for timely project completion.

b. Past Performance is associated with the offerors likelihood of success in performing the requirement of the contract by the offerors record of past performance.

- Past Performance is assessed by the Performance Risk Assessment Group (PRAG) and is assigned a narrative rating in the performance risk facotr of the evaluation. Past performance assessment will be based on the quality of your past performance as well as that of any of your proposed subcontractors, if any, as it relates to the probability of successful accomplishment of the required effort. When assessing past performance, we will focus our inquiry on your past performance and your proposed subcontractors, if any. We will inquire on areas of cost, schedule and performance, including your records of conforming to specification and to standards of good workmanship.
- A significant achievement, problem, or lack of relevant data in any element of the work can become an important consideration in the source selection process. A negative finding under any element may result in an overall high-risk rating. Therefore, you are reminded to include all relevant past efforts, including demonstrated corrective actions, in the proposal. A lack of a performance record may therefore result in an unknown risk rating. Additionally, non-submission of this required past and present performance as a separate volume may result in rejection of the proposal.

c. The proposed price will be evaluated by the Government and provided in a narrative format. Award will be based on the total price for design and renovation of the religious facility.



WAIS Document Retrieval  
GENERAL DECISION: AZ20030001 06/17/2005 AZ1

Date: June 17, 2005  
General Decision Number: AZ20030001 06/17/2005

Superseded General Decision Number: AZ020001

State: Arizona

Construction Types: Building

Counties: Coconino, Maricopa, Mohave, Pima, Pinal and Yuma  
Counties in Arizona.

BUILDING CONSTRUCTION PROJECTS (does not include residential  
construction consisting of single family homes and apartments  
up to and including 4 stories)

Modification Number	Publication Date
0	06/13/2003
1	03/19/2004
2	04/30/2004
3	08/06/2004
4	09/03/2004
5	10/15/2004
6	02/11/2005
7	03/11/2005
8	04/15/2005
9	06/17/2005

\* CARP0408-001 07/01/2004

	Rates	Fringes
Carpenter.....	\$ 20.00	4.92
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CARP1327-001 07/01/2003

	Rates	Fringes
Drywall Hanger.....	\$ 15.05	3.20
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ELEC0570-003 12/01/2004

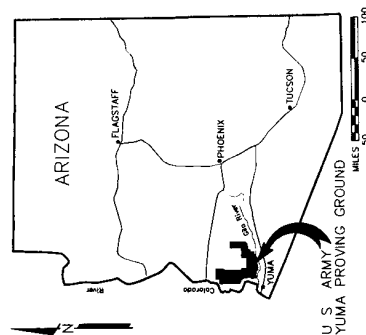
PIMA, PINAL (Southern Part), AND YUMA COUNTIES

	Rates	Fringes
Electrician/Wireman		
Zone 1.....	\$ 19.15	14.4%+4.58

ZONE DEFINITIONS:

Zone 1: 0 to 29 miles radius from City Hall in the following  
cities: Tucson, Benson, Bisbee, Clifton, Douglas, Morenci,  
Nogales, Parker, Safford, Sierra Vista & Yuma.

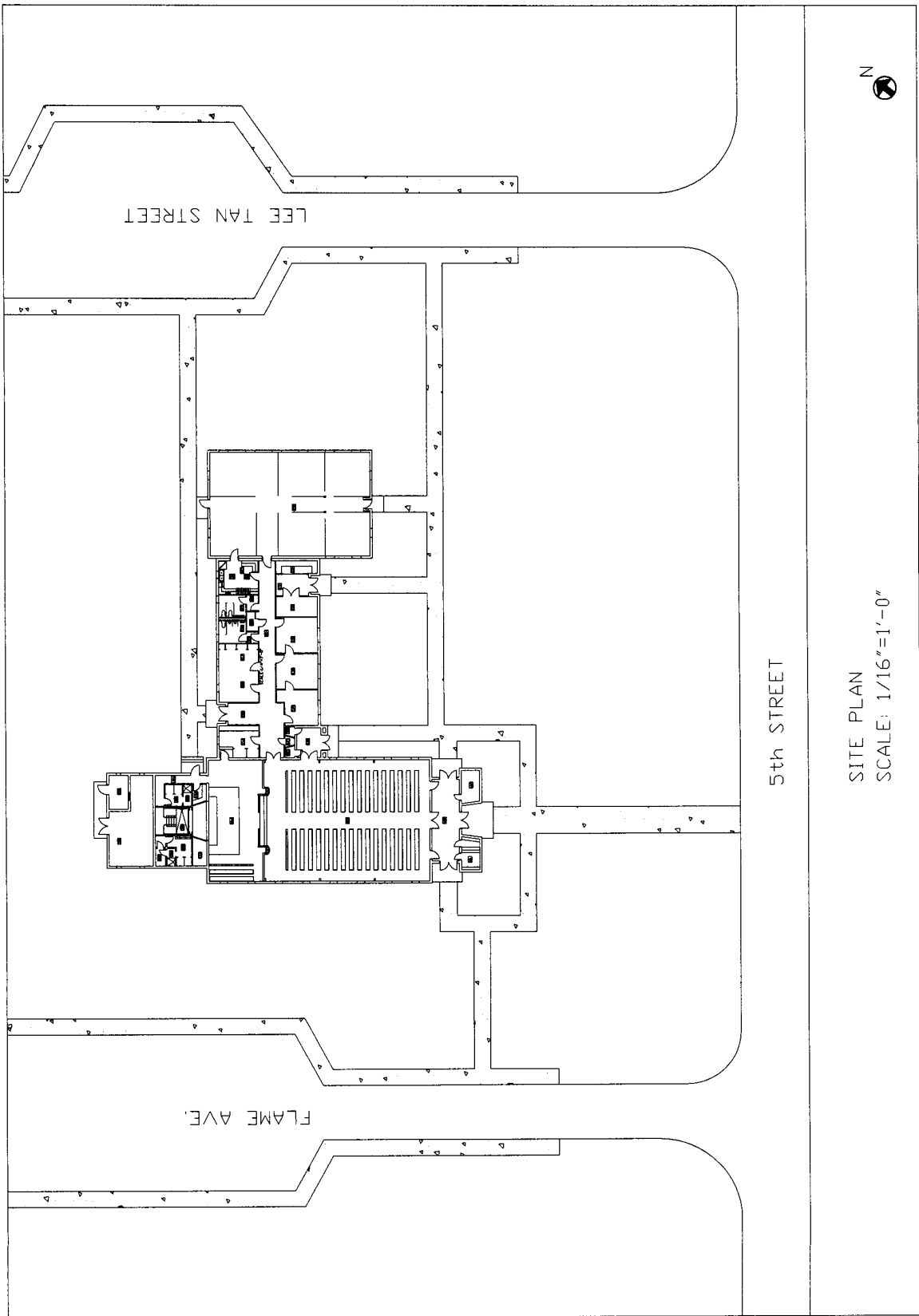




RENOVATE/ADDITION/  
 ACOUSTICAL SYSTEM  
 CHAPEL (1100)  
 SITE PLAN

SYMBOL	DESCRIPTION	DATE (MM/DD)

PROJECT NUMBER: 1705	DRAWN BY: ENGINEERING	SMOKE/VENT: USER
DESIGNED BY: J. P. LINSNER	DATE: 9 JUNE 2005	FIRE: PIA
CHECKED BY: M. PLANNING	DATE: 9 JUNE 2005	SECURITY: COMMUNICATIONS
APPROVED BY:	DATE:	REAL PROPERTY: YUMA TEST CENTER

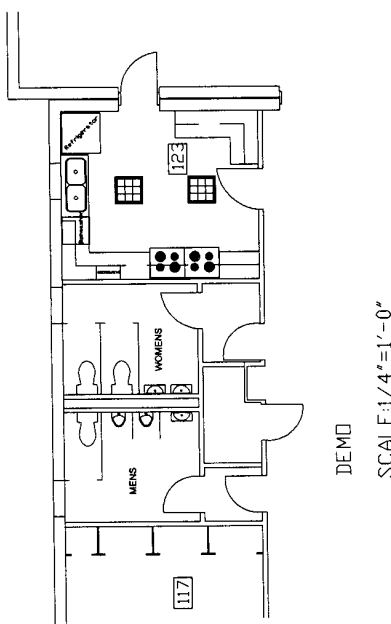
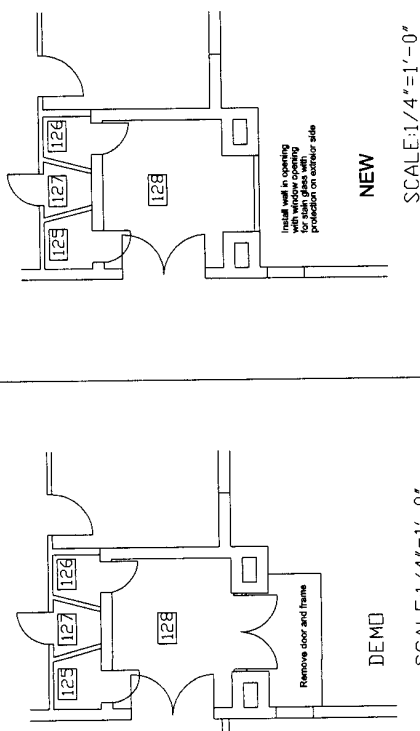
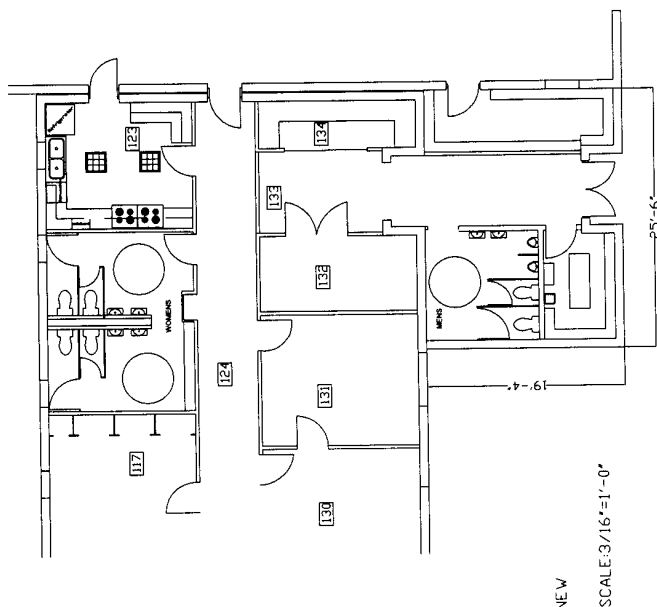


SITE PLAN  
 SCALE: 1/16"=1'-0"

5th STREET

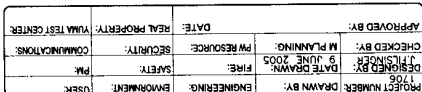
FLAME AVE.

LEE TAN STREET



- NOTES:
1. REMOVE EXISTING DOOR AND FRAME FROM ROOM 128
  2. DEMO EXISTING RESTROOMS AND UNITLY ROOM
  3. LEAVE WATER FOUNTAIN
  4. REMOVE EXISTING DOOR AND FROM ROOM 133
  5. BRICK UP OPENING AND LEAVE OPENING FOR WINDOW IN ROOM 128
  6. BRICK NEW ADDITION OFF ROOM 133
  7. IN NEW ADDITION DESIGN A RESTROOM AND STORAGE ROOMS
  8. FIELD MEASURE BEFORE CONSTRUCTION





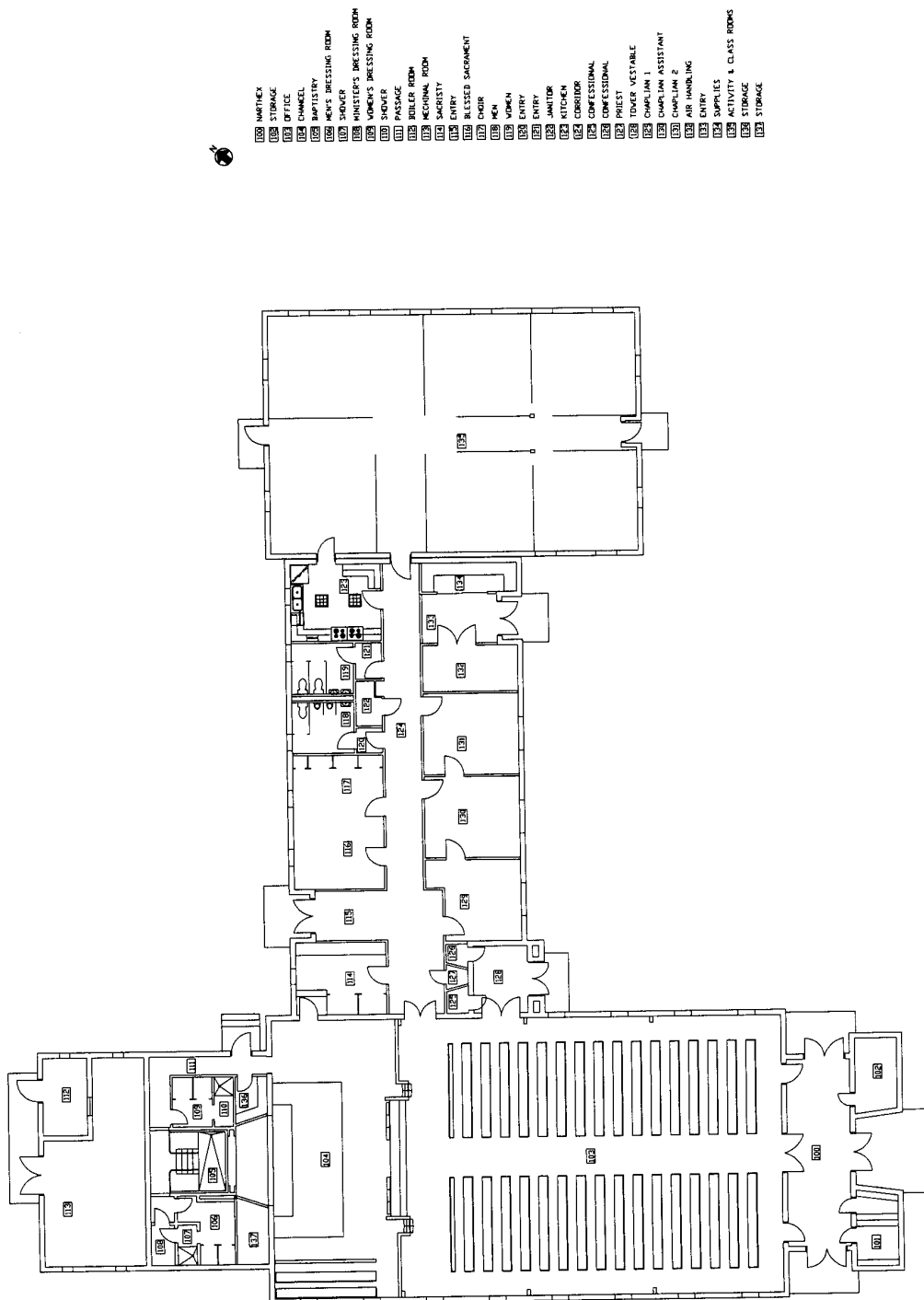
U.S. ARMY YUMA PROVING GROUND		DIRECTORATE OF PUBLIC WORKS	
SIGNAL	DESCRIPTION	DATE	CHKD

RENOVATE/ ADDITION/  
ACOUSTICAL SYSTEM  
CHAPEL (1100)  
FLOOR PLAN

SHEET 4 OF 8

A2

REFERENCE  
NUMBER:



EXISTING FLOOR PLAN  
SCALE: 1/8"=1'-0"

RENOVATE/ ADDITION/  
ACOUSTICAL SYSTEM  
CHAPEL (1100)  
SECTIONS

U.S. ARMY YUMA PROVING GROUND  
DIRECTORATE OF PUBLIC WORKS

SYMBOL	DESCRIPTION	DATE	CHKD

PROJECT NUMBER: 1706	DESIGNED BY: 1713/SMOKE	CHECKED BY: 1713/SMOKE	APPROVED BY:
DRAWN BY:	DATE DRAWN: 9 JUNE 2005	M. PLANNING:	
ENGINEERING:	FIRE:	PW RESOURCE:	DATE:
ENVIRONMENT:	SAFETY:	SECURITY:	REAL PROPERTY:
USER:	PK:	COMMUNICATIONS:	YUMA TEST CENTER

